QVANTUM
HEAT PUMPS FOR SUSTAINABLE CITIES



QVANTUM QG-7 - HYDRAULIC SCHEMATICS

Qvantum Hydraulic Schematics

QHS - QG-7_2638-B

D100070

QVANTUM QG-7 - HYDRAULIC SCHEMATICS

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QVANTUM QG-7

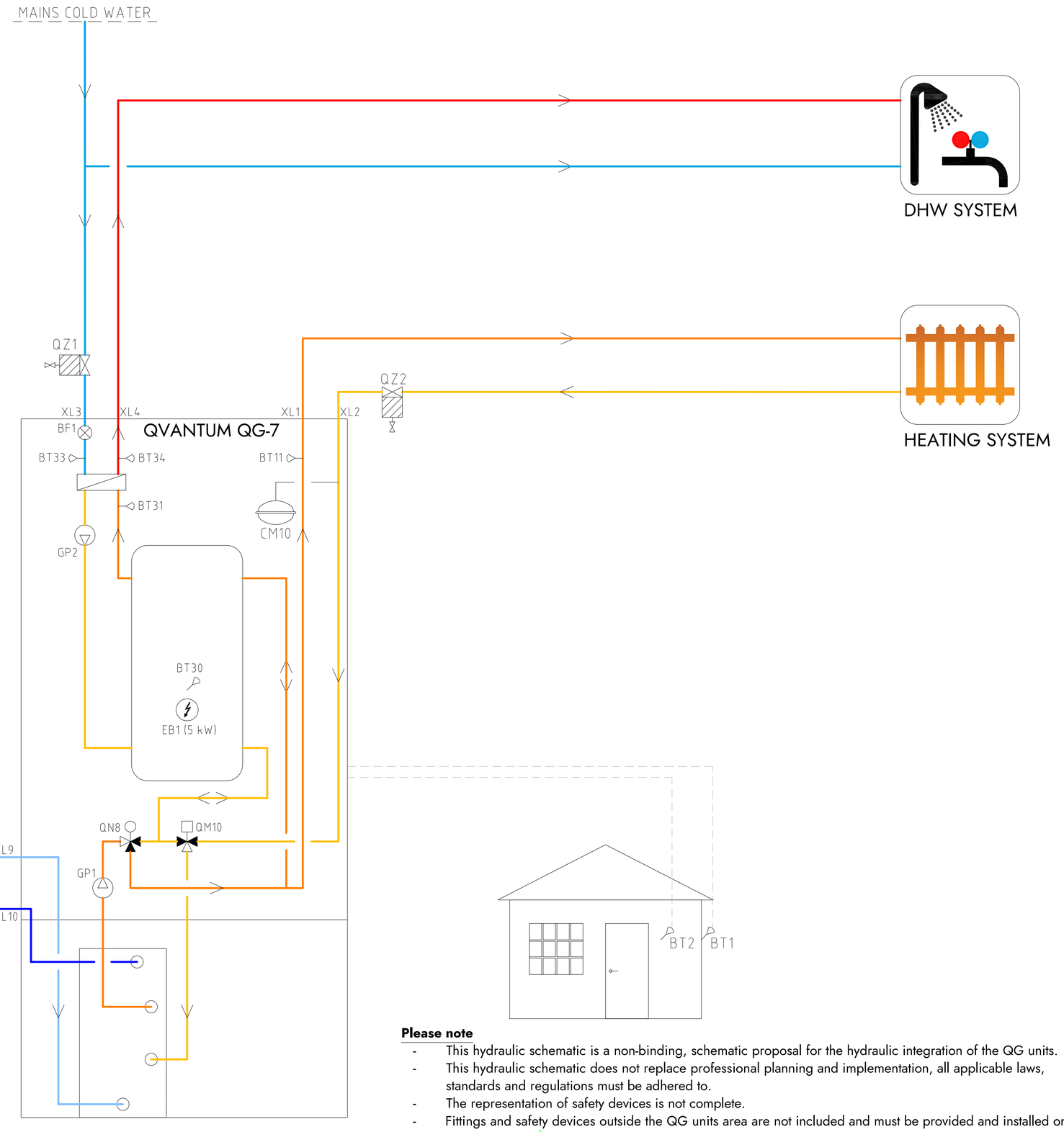
(Heating, hot water, active cooling, built in brine circulation pump)

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Classification of objects in accordance with IEC 81346-2.

Information

QG-7, Heating & hot water



COMPONENT DESIGNATIONS

BP5	Pressure gauge
BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CM10	Expansion vessel heating system
CM11	Expansion vessel brine system
EB1	Immersion heater
FL3	Safety valve brine system
GP1	Circulation pump heating
GP2	Circulation pump hot water
QM10	Diverting valve
QN8	Shunt valve
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

Please note

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- The representation of safety devices is not complete.
- Fittings and safety devices outside the QG units area are not included and must be provided and installed on site.

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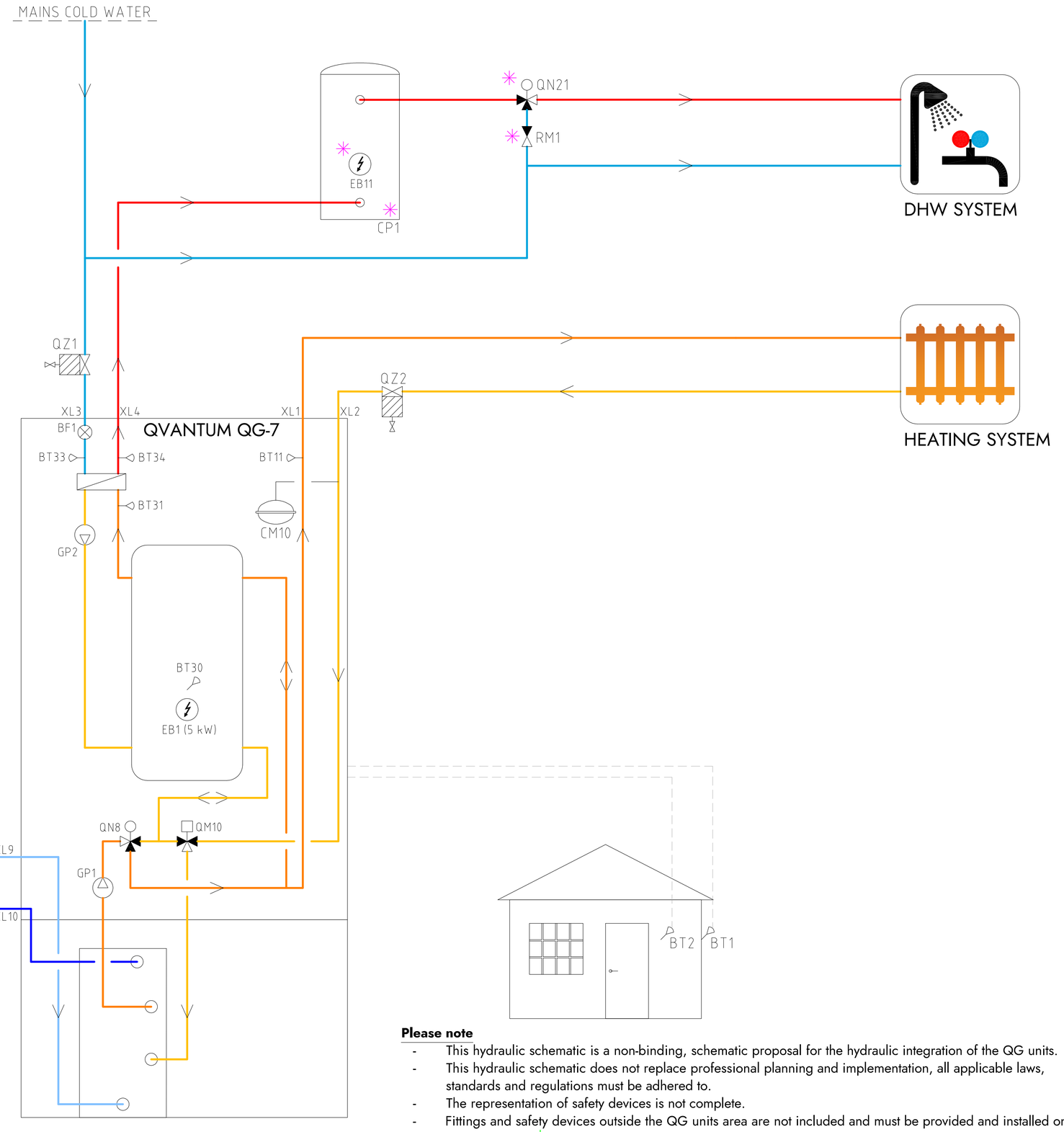
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Classification of objects in accordance with IEC 81346-2.

Information

QG-7, Heating & hot water with external hot water tank



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COMPONENT DESIGNATIONS

BP5	Pressure gauge
BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CP1	DHW tank
CM10	Expansion vessel heating system
CM11	Expansion vessel brine system
EB1	Immersion heater
EB11	Immersion heater
FL3	Safety valve brine system
GP1	Circulation pump heating
GP2	Circulation pump hot water
RM1	Non return valve hot water
QM10	Diverting valve
QN8	Shunt valve
QN21	Thermostatic mixing valve (35-60°C)
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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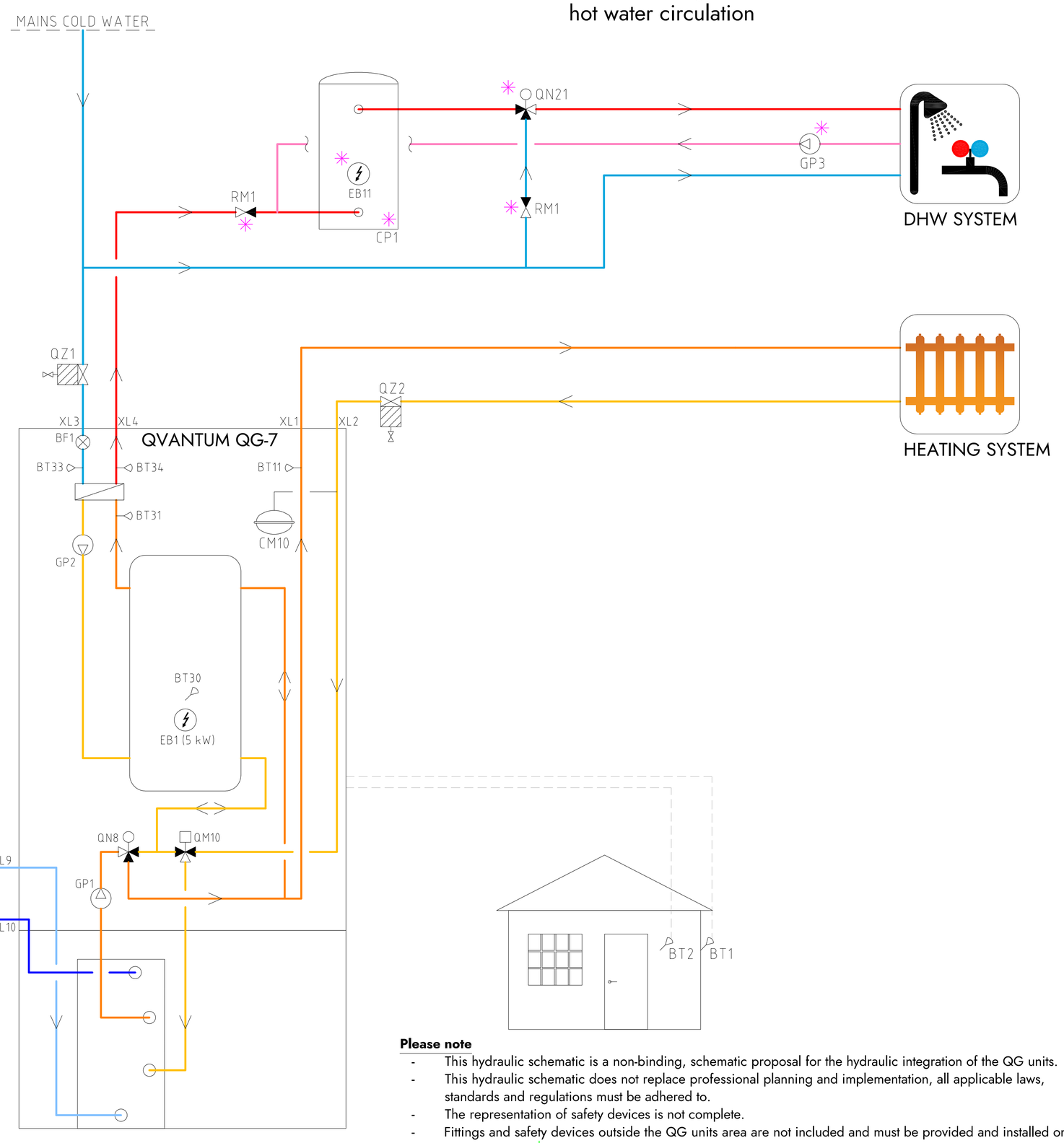
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Classification of objects in accordance with IEC 81346-2.

Information

QG-7, Heating & hot water with external hot water tank & hot water circulation



COMPONENT DESIGNATIONS

BP5	Pressure gauge
BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CP1	DHW tank
CM10	Expansion vessel heating system
CM11	Expansion vessel brine system
EB1	Immersion heater
EB11	Immersion heater
FL3	Safety valve brine system
GP1	Circulation pump heating
GP2	Circulation pump hot water
GP3	Circulation pump DHW return
RM1	Non return valve hot water
QM10	Diverting valve
QN8	Shunt valve
QN21	Thermostatic mixing valve (35-60°C)
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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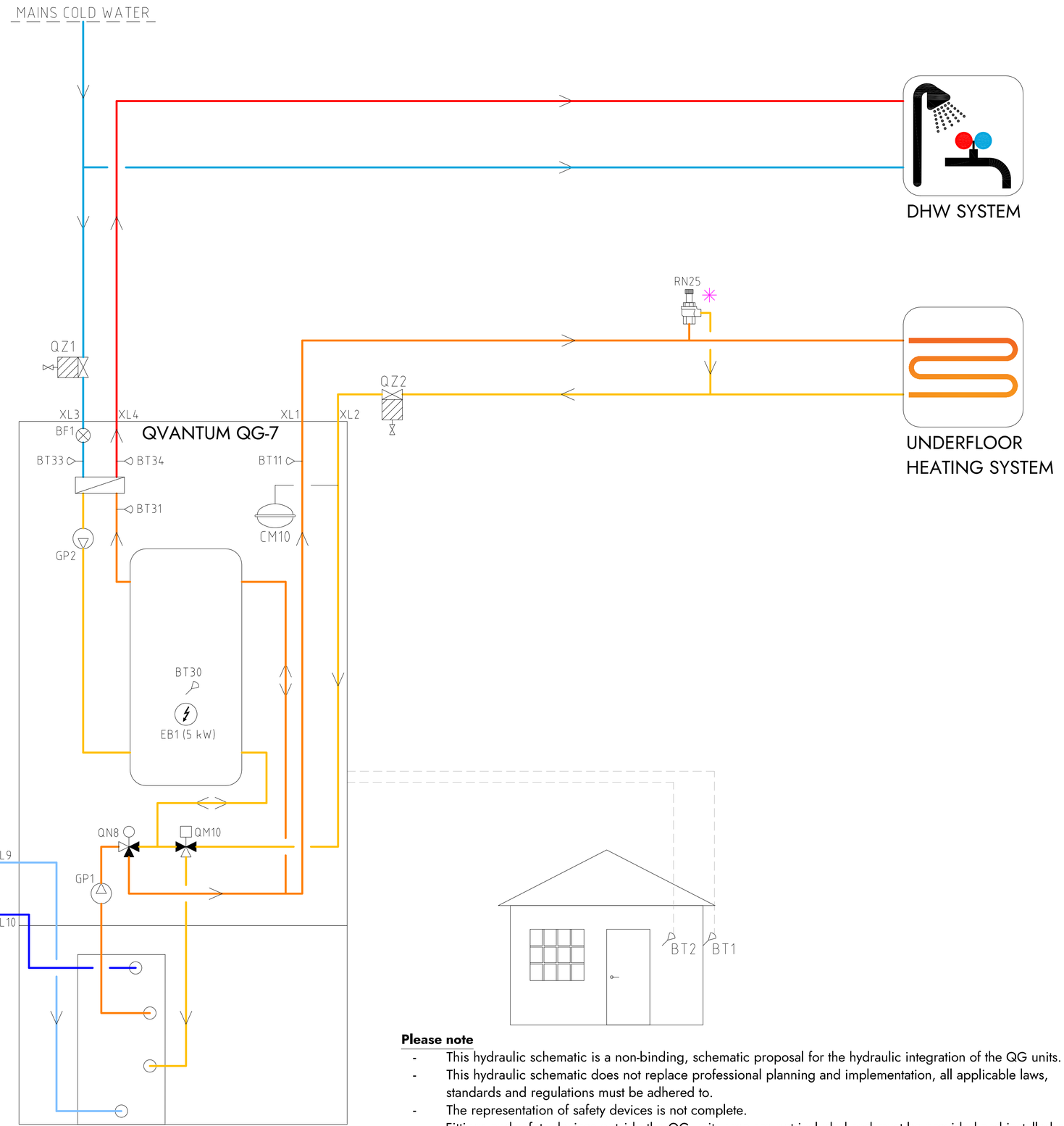
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Classification of objects in accordance with IEC 81346-2.

Information

QG-7, Underfloor heating & hot water



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COMPONENT DESIGNATIONS

BP5	Pressure gauge
BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CM10	Expansion vessel heating system
CM11	Expansion vessel brine system
EB1	Immersion heater
FL3	Safety valve brine system
GP1	Circulation pump heating
GP2	Circulation pump hot water
RN25	Overflow valve
QM10	Diverting valve
QN8	Shunt valve
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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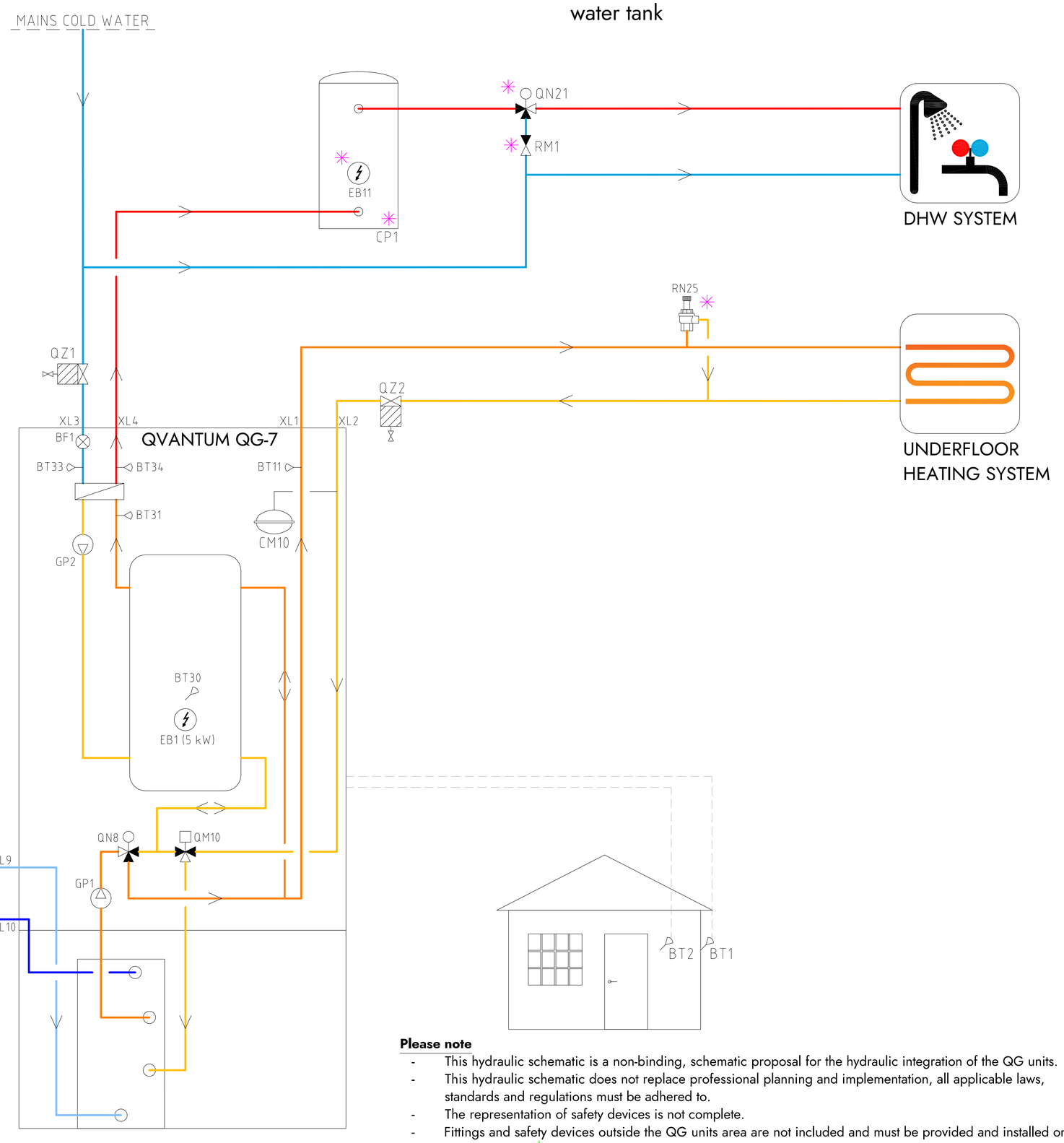
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Classification of objects in accordance with IEC 81346-2.

Information

QG-7, Underfloor heating & hot water with external hot water tank



COMPONENT DESIGNATIONS

BP5	Pressure gauge
BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CP1	DHW tank
CM10	Expansion vessel heating system
CM11	Expansion vessel brine system
EB1	Immersion heater
EB11	Immersion heater
FL3	Safety valve brine system
GP1	Circulation pump heating
GP2	Circulation pump hot water
RM1	Non return valve hot water
RN25	Overflow valve
QM10	Diverting valve
QN8	Shunt valve
QN21	Thermostatic mixing valve (35-60°C)
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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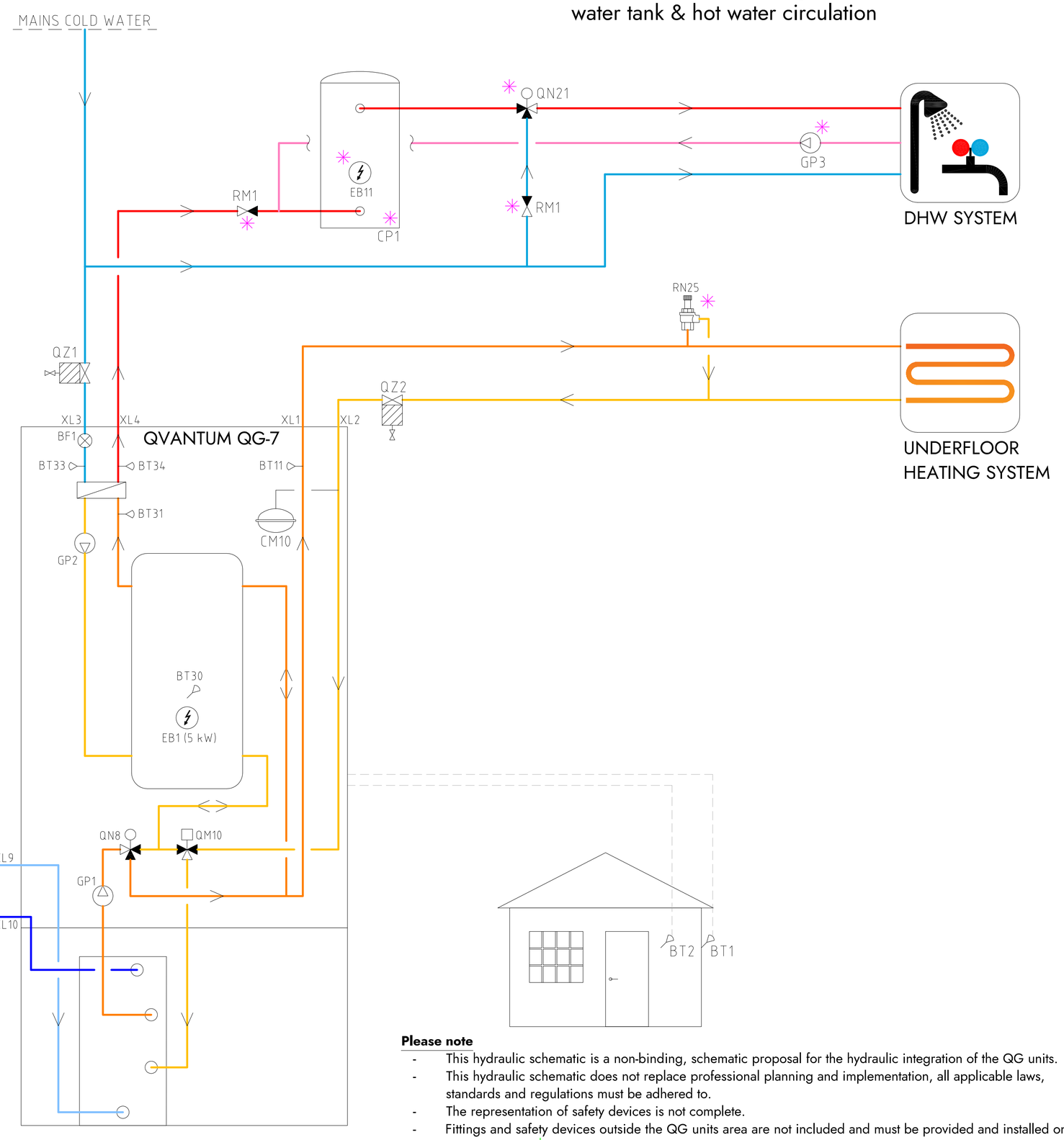
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Classification of objects in accordance with IEC 81346-2.

Information

QG-7, Underfloor heating & hot water with external hot water tank & hot water circulation



COMPONENT DESIGNATIONS

BP5	Pressure gauge
BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CP1	DHW tank
CM10	Expansion vessel heating system
CM11	Expansion vessel brine system
EB1	Immersion heater
EB11	Immersion heater
FL3	Safety valve brine system
GP1	Circulation pump heating
GP2	Circulation pump hot water
GP3	Circulation pump DHW return
RM1	Non return valve hot water
RN25	Overflow valve
QM10	Diverting valve
QN8	Shunt valve
QN21	Thermostatic mixing valve (35-60°C)
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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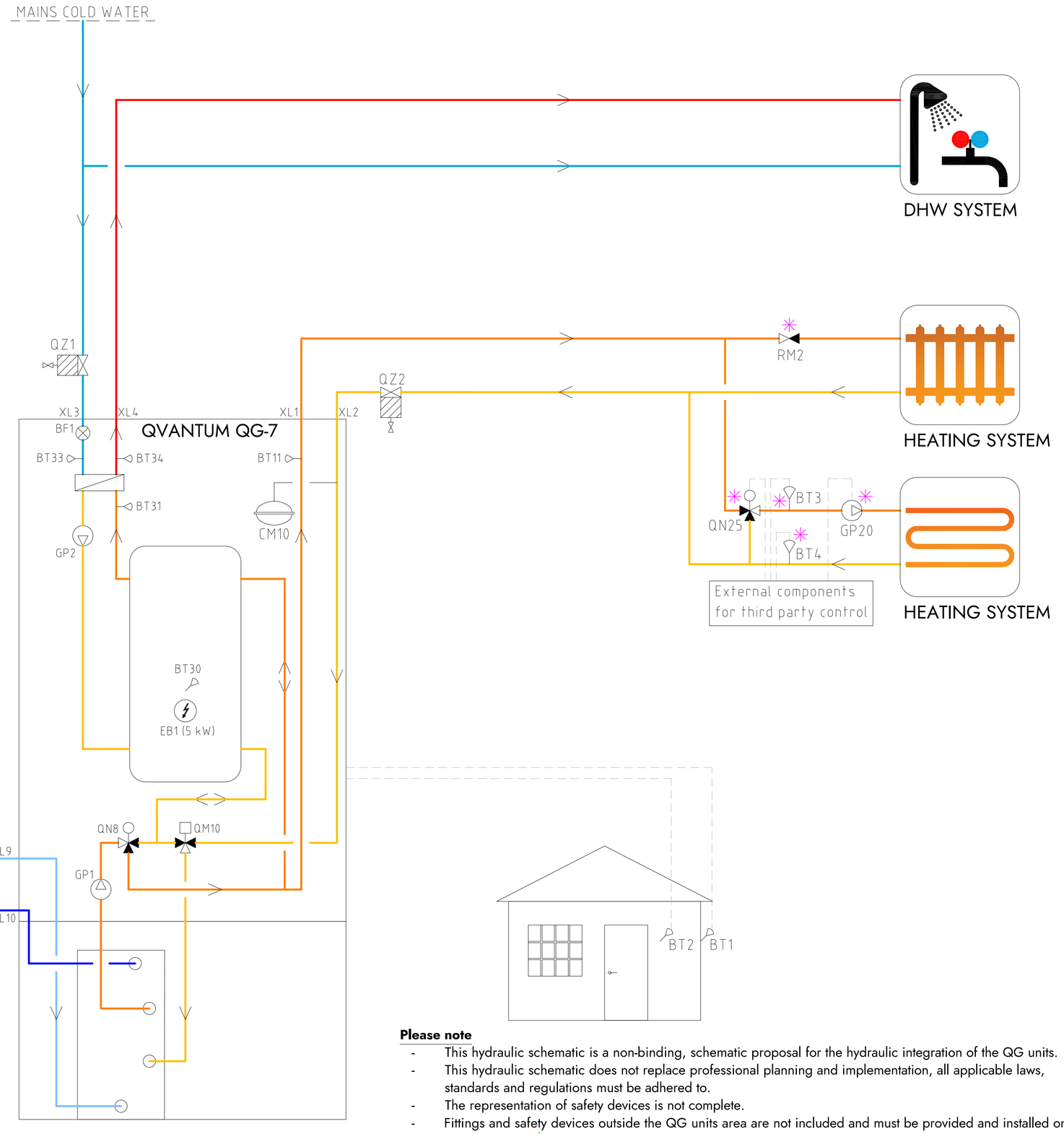
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Classification of objects in accordance with IEC 81346-2.

Information

QG-7, Heating & hot water, second heating system



COMPONENT DESIGNATIONS

BP5	Pressure gauge
BT1	Outdor sensor
BT2	Room sensor
BT3	Heating flow, sec heat system
BT4	Heating return, sec heat system
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CM10	Expansion vessel heating system
CM11	Expansion vessel brine system
EB1	Immersion heater
FL3	Safety valve brine
GP1	Circulation pump heating
GP2	Circulation pump hot water
GP20	Circulation pump, sec heat system
RM2	Non return valve heating system
QM10	Diverting valve
QN8	Shunt valve
QN25	Shunt valve, sec heat system
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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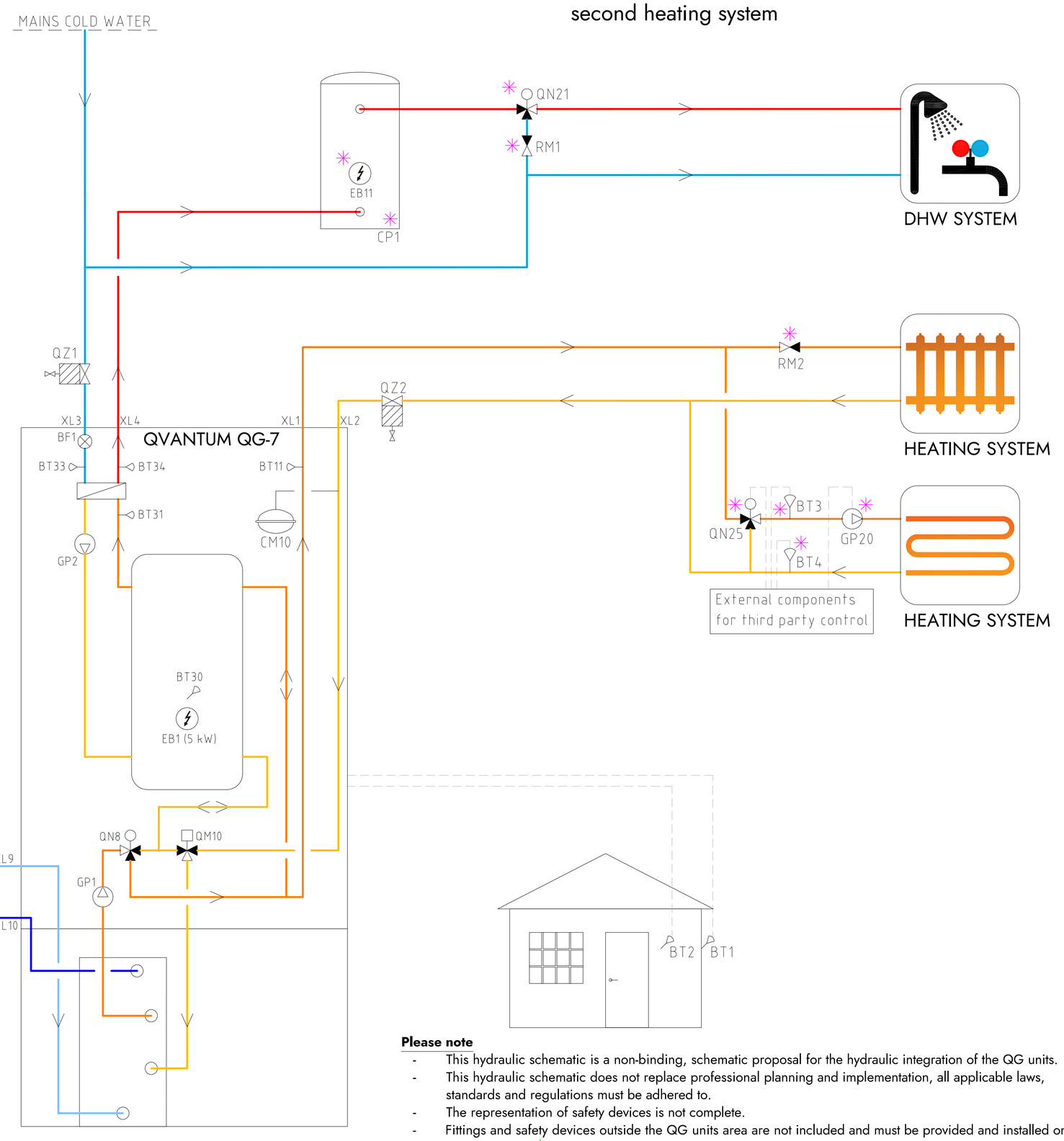
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Classification of objects in accordance with IEC 81346-2.

Information

QG-7, Heating & hot water with external hot water tank, second heating system



COMPONENT DESIGNATIONS

BP5	Pressure gauge
BT1	Outdor sensor
BT2	Room sensor
BT3	Heating flow, sec heat system
BT4	Heating return, sec heat system
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CP1	DHW tank
CM10	Expansion vessel heating system
CM11	Expansion vessel brine system
EB1	Immersion heater
EB11	Immersion heater
FL3	Safety valve brine system
GP1	Circulation pump heating
GP2	Circulation pump hot water
GP20	Circulation pump, sec heat system
RM1	Non return valve hot water
RM2	Non return valve heating system
QM10	Diverting valve
QN8	Shunt valve
QN21	Thermostatic mixing valve (35-60°C)
QN25	Shunt valve, sec heat system
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

Please note

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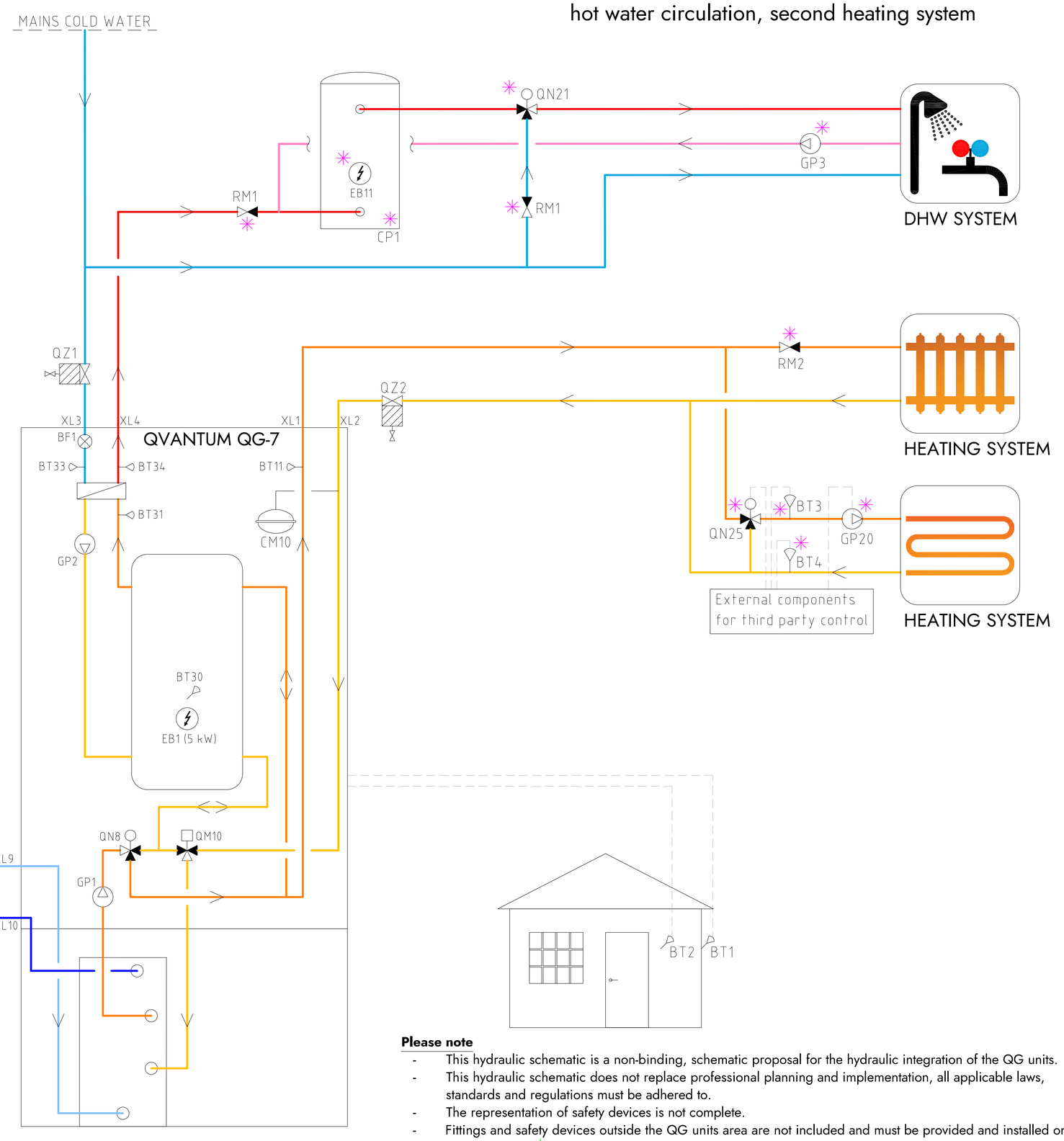
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Classification of objects in accordance with IEC 81346-2.

Information

QG-7, Heating & hot water with external hot water tank & hot water circulation, second heating system



COMPONENT DESIGNATIONS

BP5	Pressure gauge
BT1	Outdor sensor
BT2	Room sensor
BT3	Heating flow, sec heat system
BT4	Heating return, sec heat system
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CP1	DHW tank
CM10	Expansion vessel heating system
CM11	Expansion vessel brine system
EB1	Immersion heater
EB11	Immersion heater
FL3	Safety valve brine system
GP1	Circulation pump heating
GP2	Circulation pump hot water
GP3	Circulation pump DHW return
GP20	Circulation pump, sec heat system
RM1	Non return valve hot water
RM2	Non return valve heating system
QM10	Diverting valve
QN8	Shunt valve
QN21	Thermostatic mixing valve (35-60°C)
QN25	Shunt valve, sec heat system
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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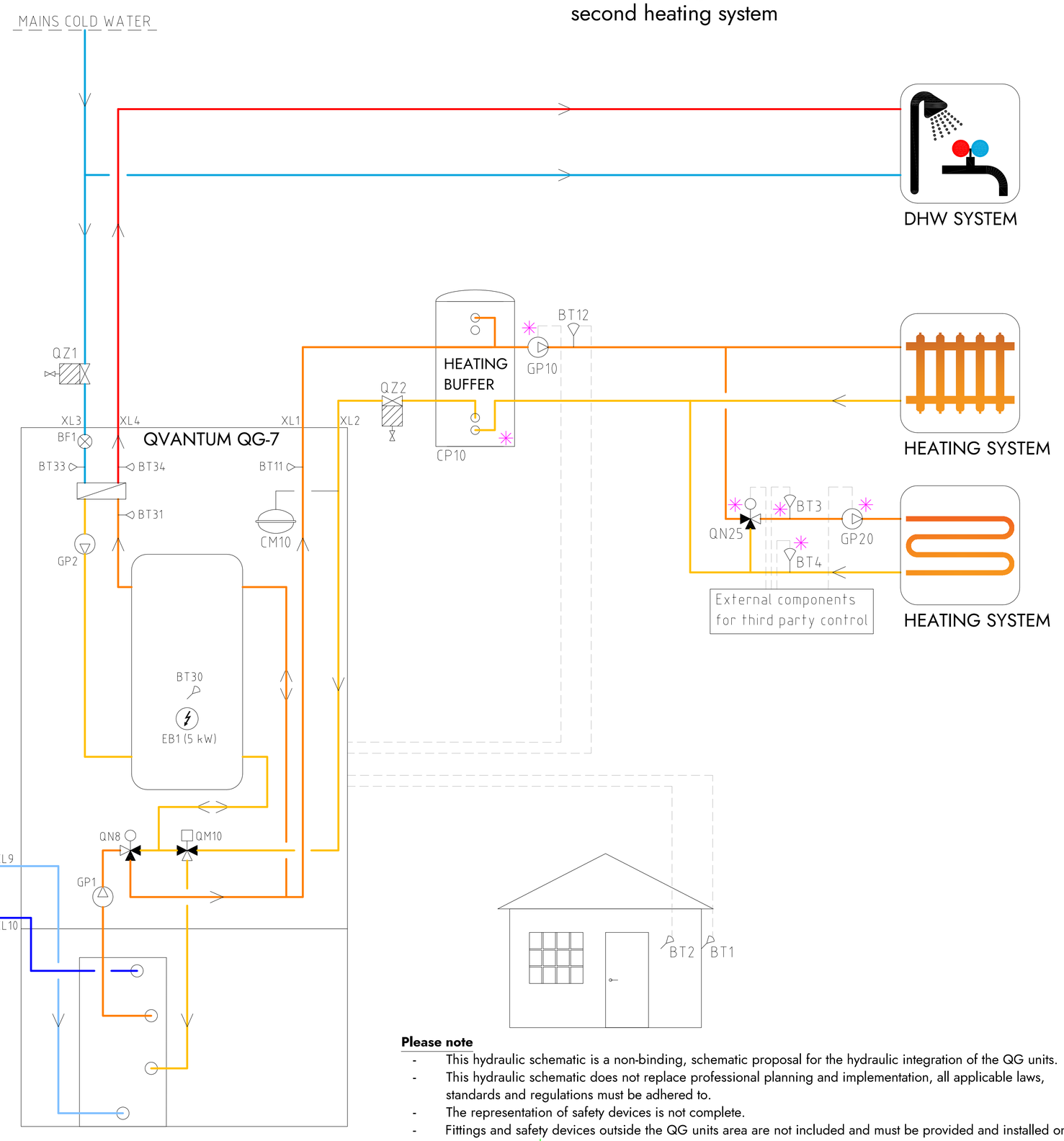
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Classification of objects in accordance with IEC 81346-2.

Information

QG-7, Heating & hot water, external circulation pump, second heating system



Please note

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COMPONENT DESIGNATIONS

BP5	Pressure gauge
BT1	Outdor sensor
BT2	Room sensor
BT3	Heating flow, sec heat system
BT4	Heating return, sec heat system
BT11	Heating flow temperature
BT12	External flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CM10	Expansion vessel heating system
CM11	Expansion vessel brine system
EB1	Immersion heater
FL3	Safety valve brine system
GP1	Circulation pump heating
GP2	Circulation pump hot water
GP10	Circulation pump, heat system
GP20	Circulation pump, sec heat system
QM10	Diverting valve
QN8	Shunt valve
QN25	Shunt valve, sec heat system
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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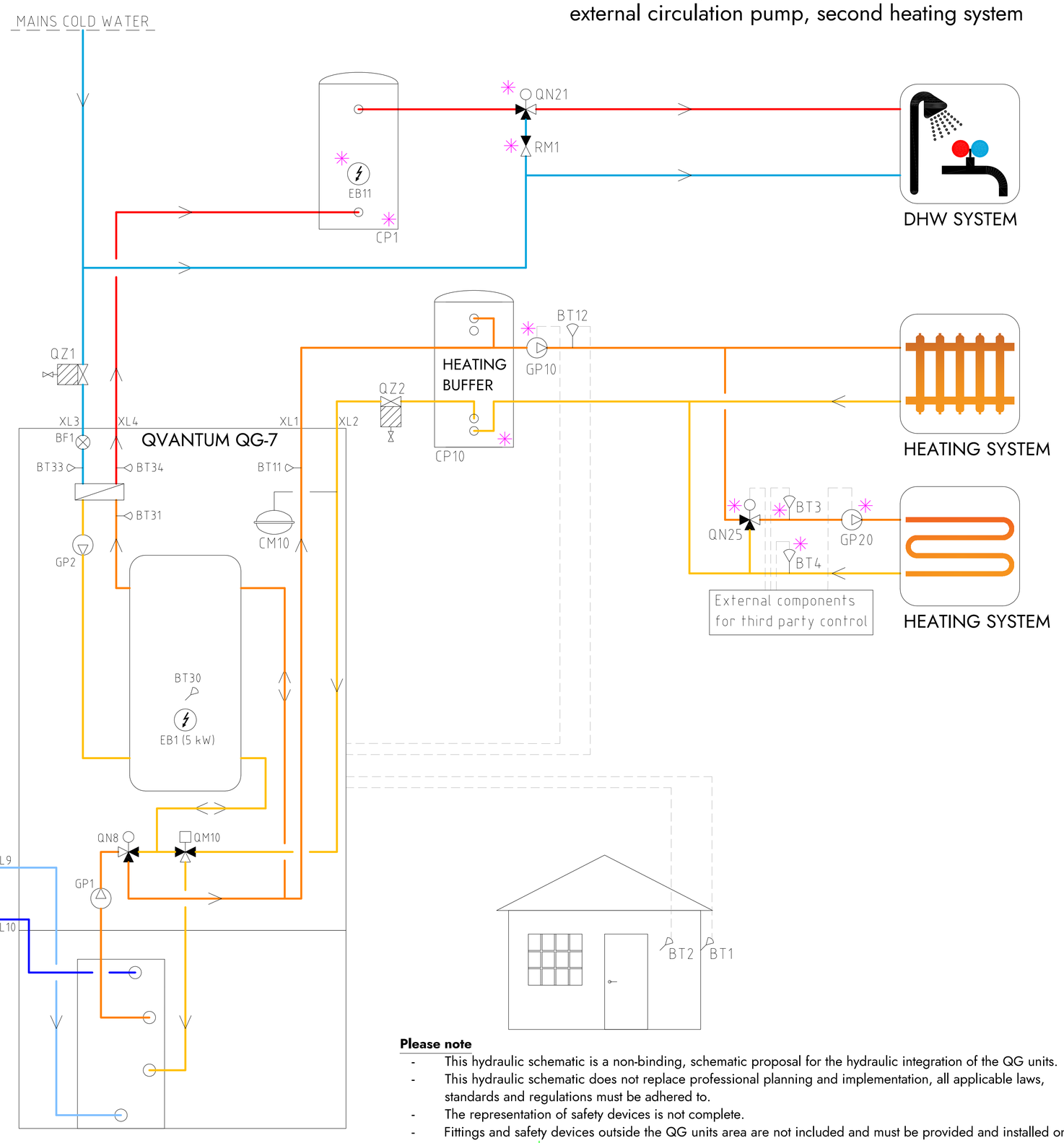
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Classification of objects in accordance with IEC 81346-2.

Information

QG-7, Heating & hot water with external hot water tank, external circulation pump, second heating system



Please note

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COMPONENT DESIGNATIONS

BP5	Pressure gauge
BT1	Outdor sensor
BT2	Room sensor
BT3	Heating flow, sec heat system
BT4	Heating return, sec heat system
BT11	Heating flow temperature
BT12	External flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CP1	DHW tank
CM10	Expansion vessel heating system
CM11	Expansion vessel brine system
EB1	Immersion heater
EB11	Immersion heater
FL3	Safety valve brine system
GP1	Circulation pump heating
GP2	Circulation pump hot water
GP10	Circulation pump, heat system
GP20	Circulation pump, sec heat system
QM10	Diverting valve
RM1	Non return valve hot water
QN8	Shunt valve
QN21	Thermostatic mixing valve (35-60°C)
QN25	Shunt valve, sec heat system
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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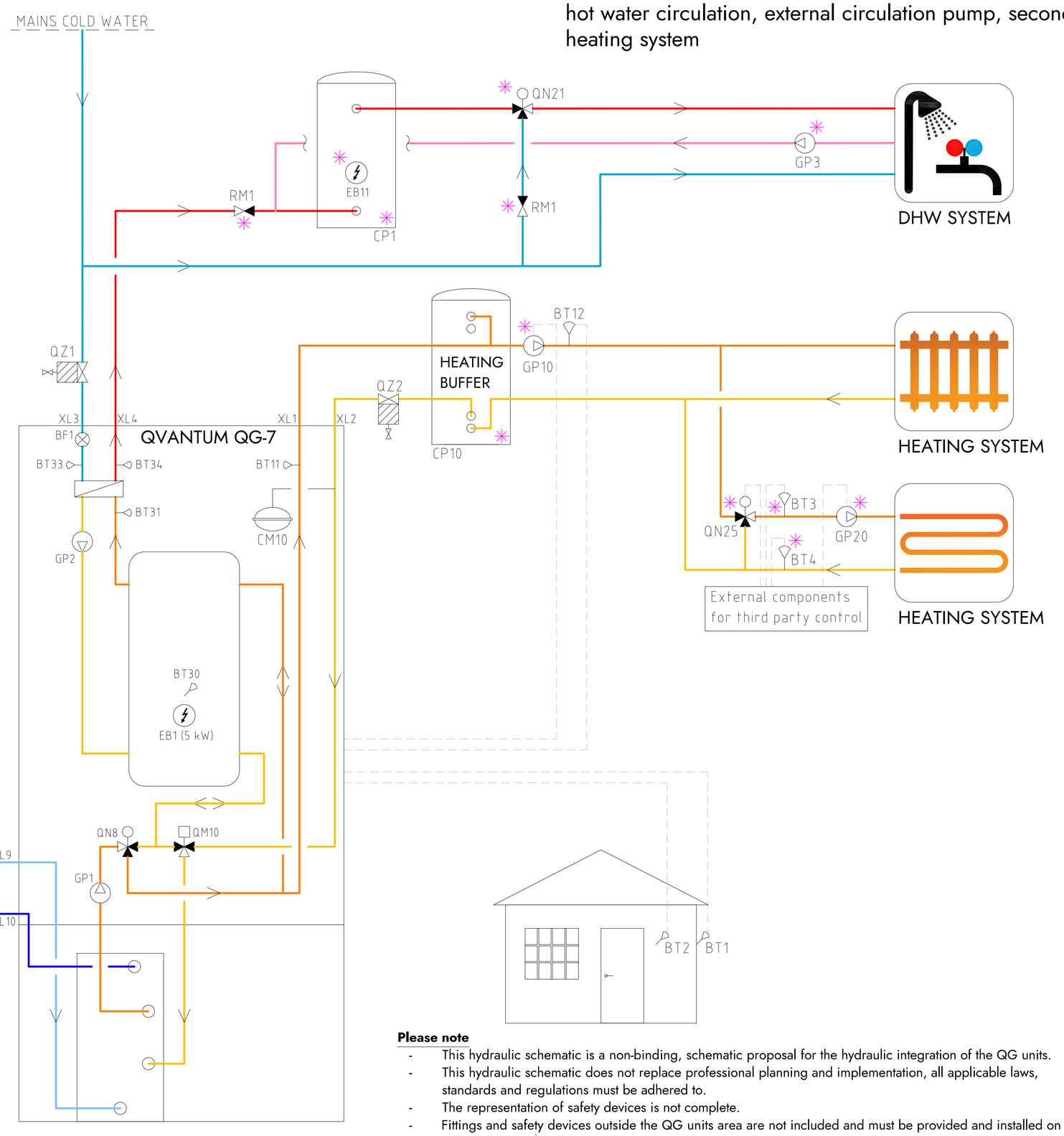
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Classification of objects in accordance with IEC 81346-2.

Information

QG-7, Heating & hot water with external hot water tank & hot water circulation, external circulation pump, second heating system



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COMPONENT DESIGNATIONS

BP5	Pressure gauge
BT1	Outdor sensor
BT2	Room sensor
BT3	Heating flow, sec heat system
BT4	Heating return, sec heat system
BT11	Heating flow temperature
BT12	External flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CP1	DHW tank
CM10	Expansion vessel heating system
CM11	Expansion vessel brine system
EB1	Immersion heater
EB11	Immersion heater
FL3	Safety valve brine system
GP1	Circulation pump heating
GP2	Circulation pump hot water
GP3	Circulation pump DHW return
GP10	Circulation pump, heat system
GP20	Circulation pump, sec heat system
RM1	Non return valve hot water
QM10	Diverting valve
QN8	Shunt valve
QN21	Thermostatic mixing valve (35-60°C)
QN25	Shunt valve, sec heat system
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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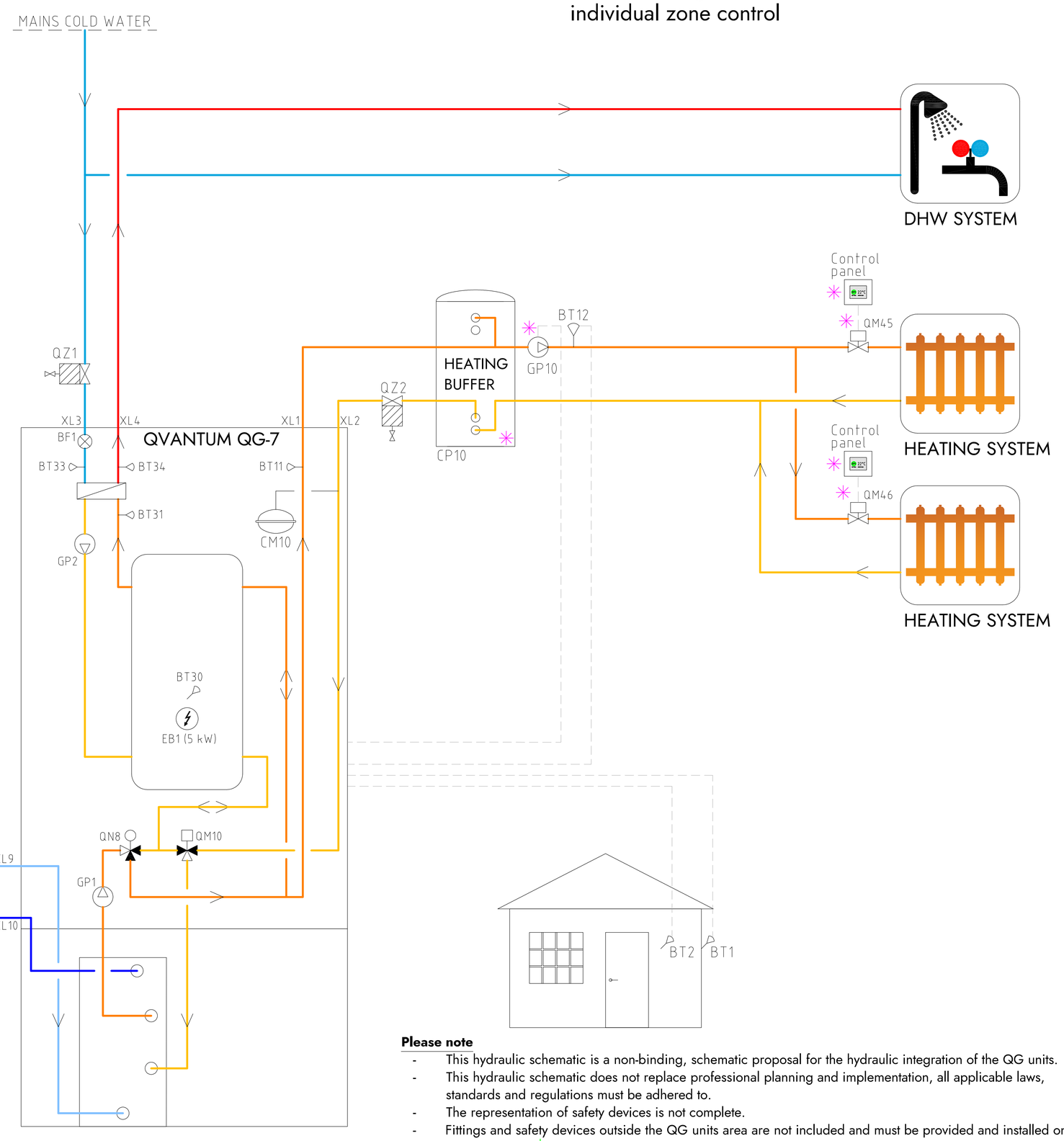
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Classification of objects in accordance with IEC 81346-2.

Information

QG-7, Heating & hot water, external circulation pump, individual zone control



COMPONENT DESIGNATIONS

BP5	Pressure gauge
BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT12	External flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CM10	Expansion vessel heating system
CM11	Expansion vessel brine system
EB1	Immersion heater
FL3	Safety valve brine system
GP1	Circulation pump heating
GP2	Circulation pump hot water
GP10	Circulation pump, heat system
QM10	Diverting valve
QM45	Zone valve
QM46	Zone valve
QN8	Shunt valve
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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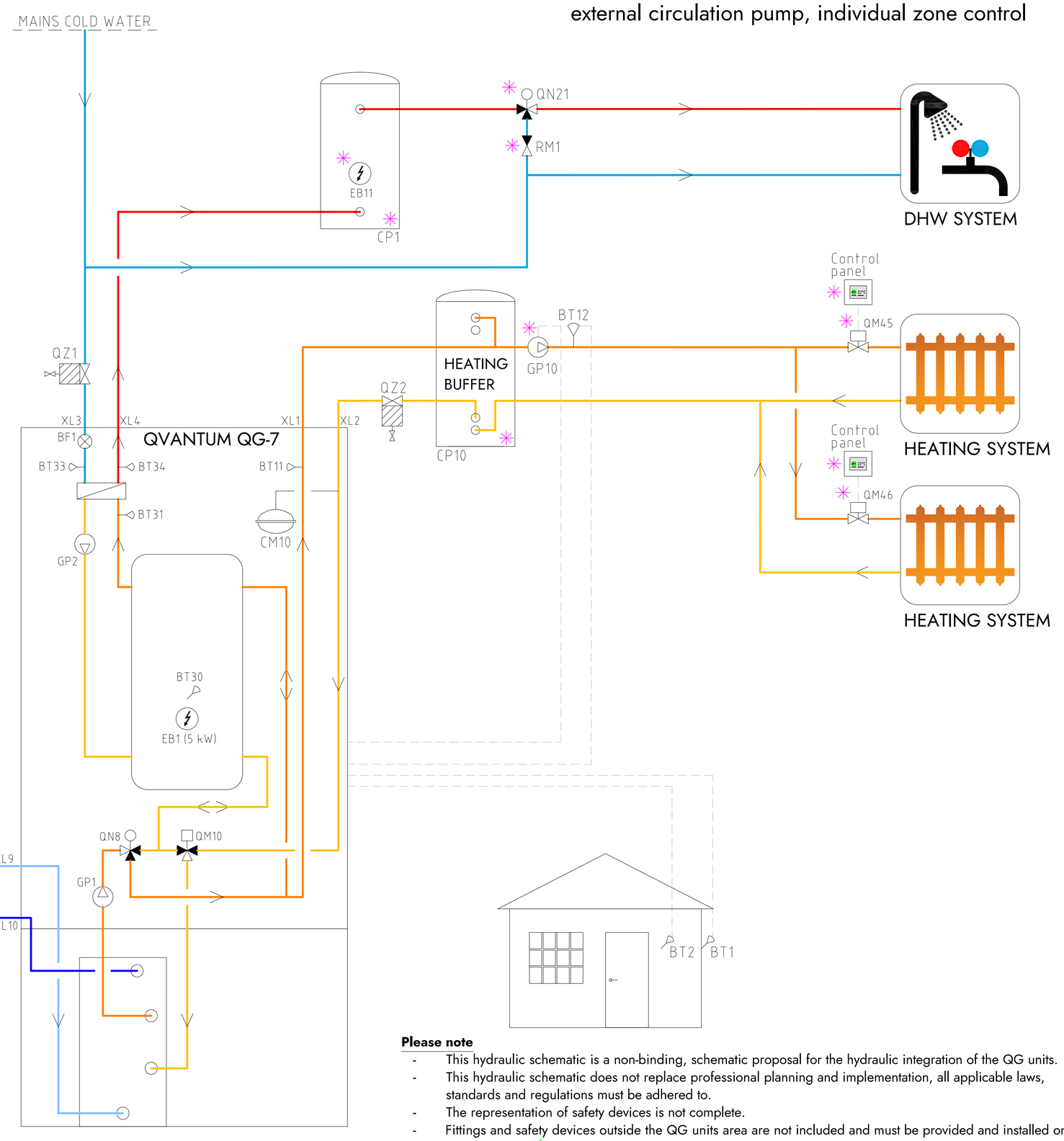
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Classification of objects in accordance with IEC 81346-2.

Information

QG-7, Heating & hot water with external hot water tank, external circulation pump, individual zone control



Please note

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COMPONENT DESIGNATIONS

BP5	Pressure gauge
BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT12	External flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CP1	DHW tank
CM10	Expansion vessel heating system
CM11	Expansion vessel brine system
EB1	Immersion heater
EB11	Immersion heater
FL3	Safety valve brine system
GP1	Circulation pump heating
GP2	Circulation pump hot water
GP10	Circulation pump, heat system
RM1	Non return valve hot water
QM10	Diverting valve
QM45	Zone valve
QM46	Zone valve
QN8	Shunt valve
QN21	Thermostatic mixing valve (35-60°C)
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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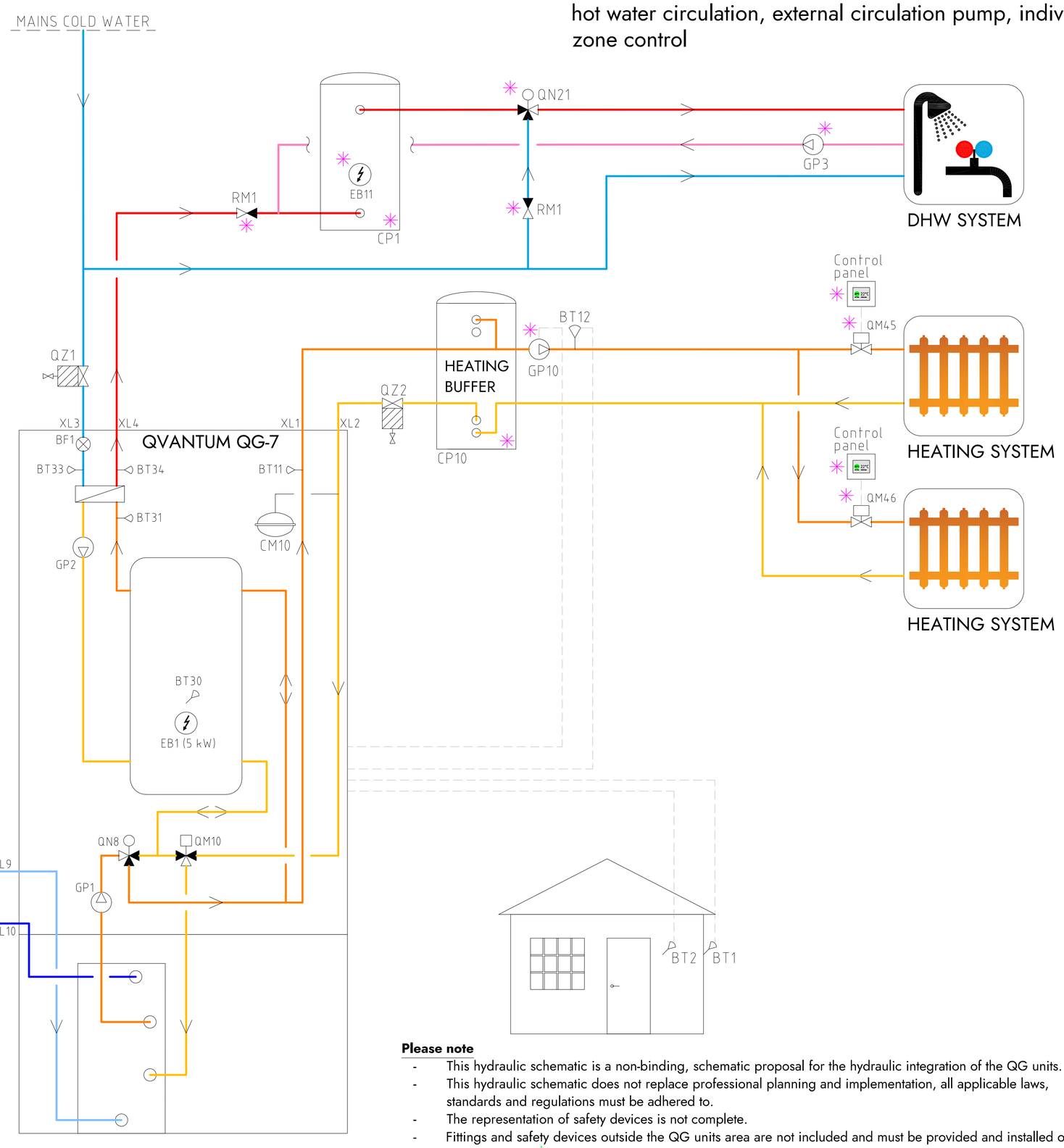
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Classification of objects in accordance with IEC 81346-2.

Information

QG-7, Heating & hot water with external hot water tank & hot water circulation, external circulation pump, individual zone control



COMPONENT DESIGNATIONS

BP5	Pressure gauge
BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT12	External flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CP1	DHW tank
CM10	Expansion vessel heating system
CM11	Expansion vessel brine system
EB1	Immersion heater
EB11	Immersion heater
FL3	Safety valve brine system
GP1	Circulation pump heating
GP2	Circulation pump hot water
GP3	Circulation pump DHW return
GP10	Circulation pump, heat system
RM1	Non return valve hot water
QM10	Diverting valve
QM45	Zone valve
QM46	Zone valve
QN8	Shunt valve
QN21	Thermostatic mixing valve (35-60°C)
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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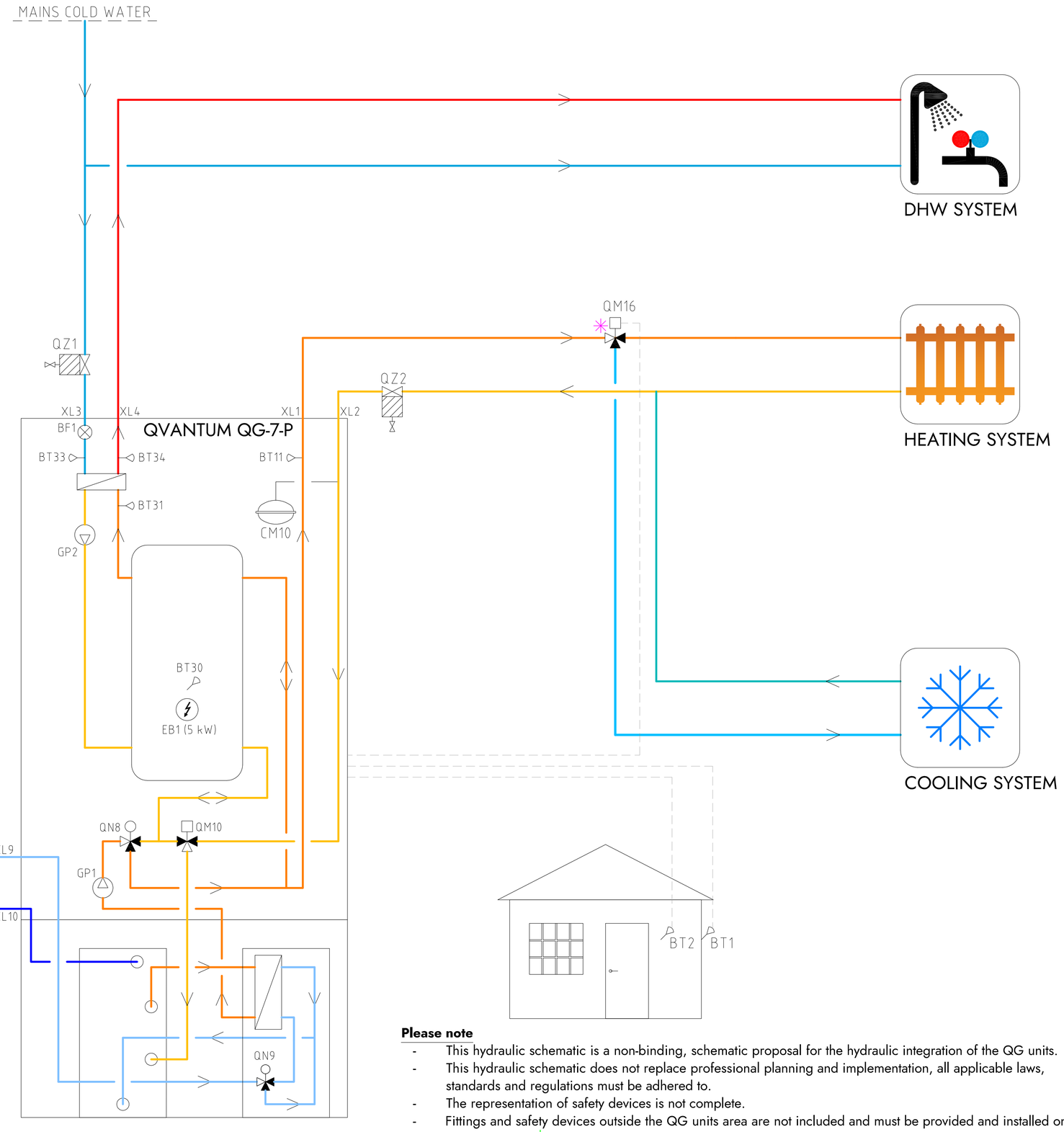
(Heating, hot water, passive & active cooling, built in brine circulation pump)

Subject to possible printing errors.

Classification of objects in accordance with IEC 81346-2.

Information

QG-7-P, Heating & hot water, passive/active cooling



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COMPONENT DESIGNATIONS

BP5	Pressure gauge
BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CM10	Expansion vessel heating system
CM11	Expansion vessel brine system
EB1	Immersion heater
FL3	Safety valve brine system
GP1	Circulation pump heating
GP2	Circulation pump hot water
QM10	Diverting valve
QM16	Diverting valve cooling
QN8	Shunt valve
QN9	Shunt valve brine system
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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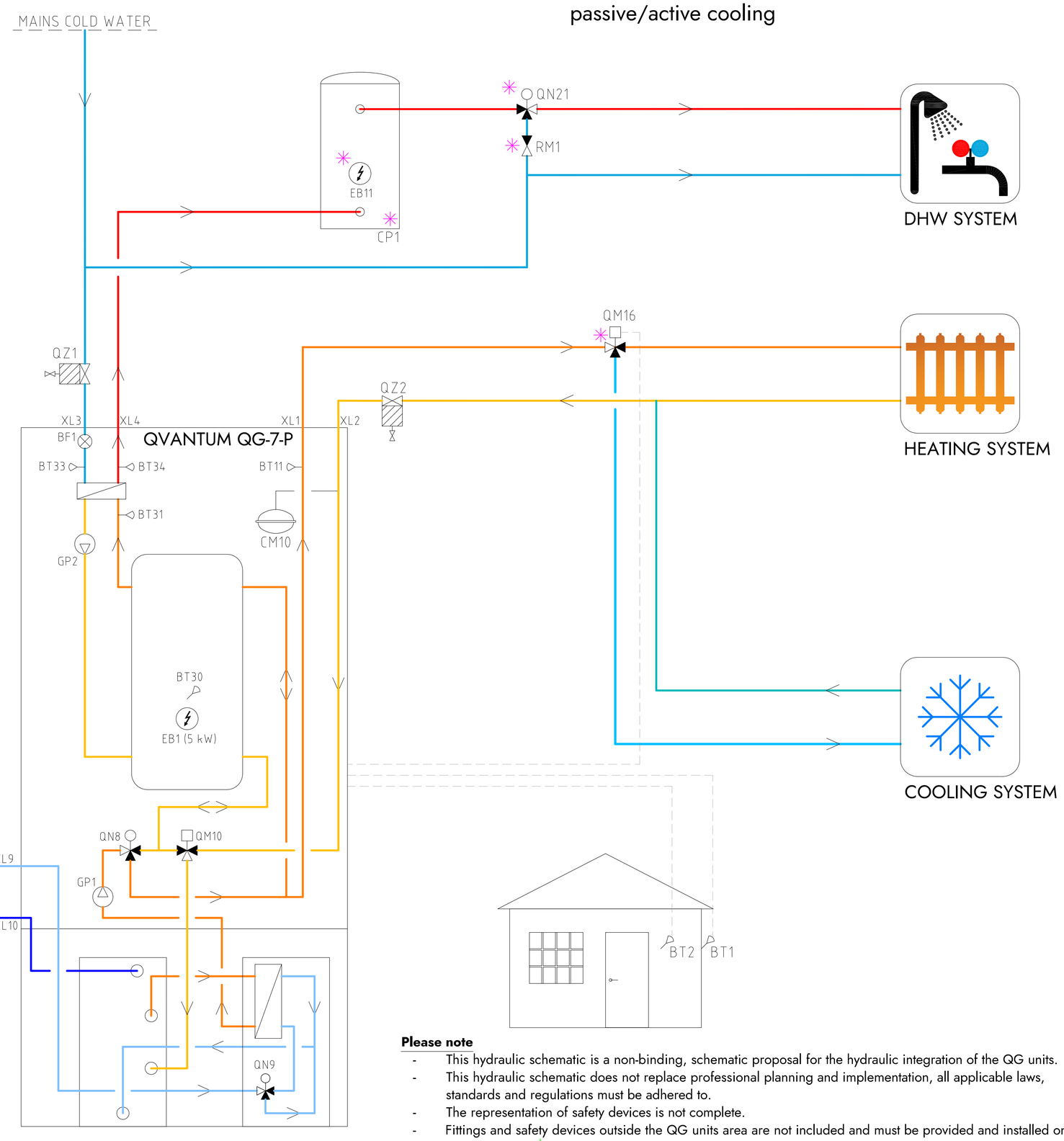
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Classification of objects in accordance with IEC 81346-2.

Information

QG-7-P, Heating & hot water with external hot water tank, passive/active cooling



COMPONENT DESIGNATIONS

BP5	Pressure gauge
BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CP1	DHW tank
CM10	Expansion vessel heating system
CM11	Expansion vessel brine system
EB1	Immersion heater
EB11	Immersion heater
FL3	Safety valve brine system
GP1	Circulation pump heating
GP2	Circulation pump hot water
RM1	Non return valve hot water
QM10	Diverting valve
QM16	Diverting valve cooling
QN8	Shunt valve
QN9	Shunt valve brine system
QN21	Thermostatic mixing valve (35-60°C)
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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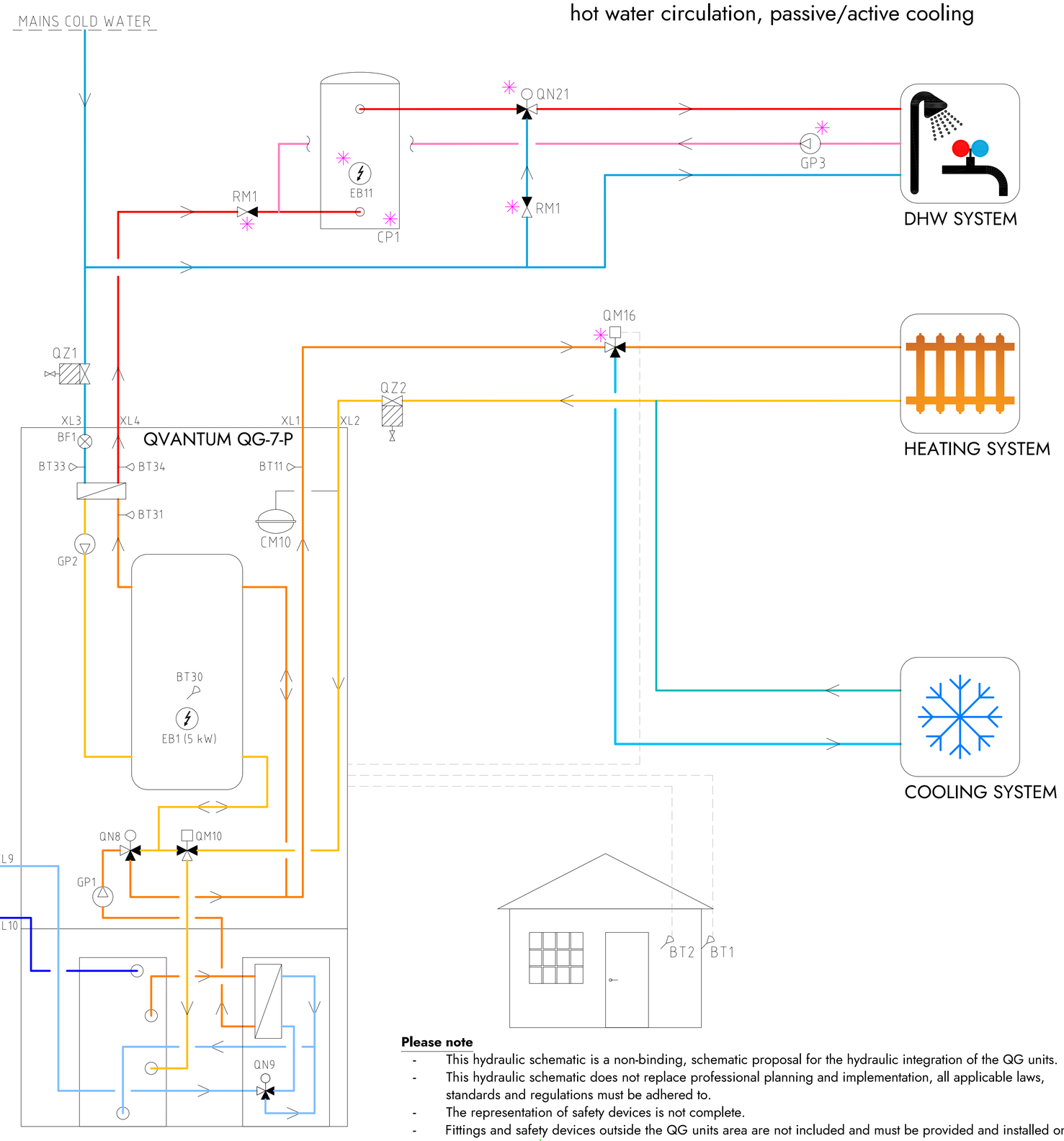
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Classification of objects in accordance with IEC 81346-2.

Information

QG-7-P, Heating & hot water with external hot water tank & hot water circulation, passive/active cooling



COMPONENT DESIGNATIONS

BP5	Pressure gauge
BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CP1	DHW tank
CM10	Expansion vessel heating system
CM11	Expansion vessel brine system
EB1	Immersion heater
EB11	Immersion heater
FL3	Safety valve brine system
GP1	Circulation pump heating
GP2	Circulation pump hot water
GP3	Circulation pump DHW return
RM1	Non return valve hot water
QM10	Diverting valve
QM16	Diverting valve cooling
QN8	Shunt valve
QN9	Shunt valve brine system
QN21	Thermostatic mixing valve (35-60°C)
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

Please note

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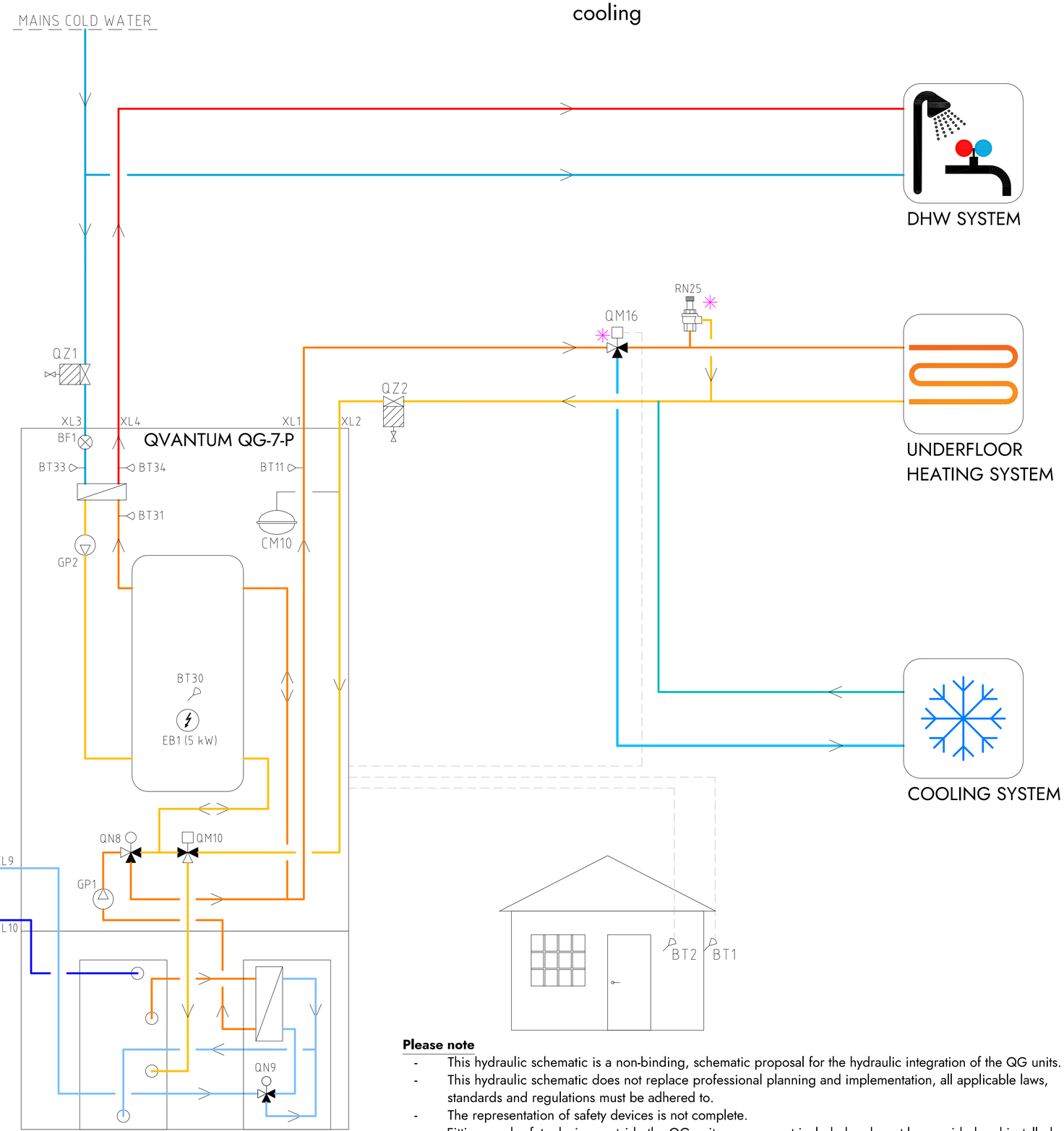
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Classification of objects in accordance with IEC 81346-2.

Information

QG-7-P, Underfloor heating & hot water, passive/active cooling



COMPONENT DESIGNATIONS

BP5	Pressure gauge
BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CM10	Expansion vessel heating system
CM11	Expansion vessel brine system
EB1	Immersion heater
FL3	Safety valve brine system
GP1	Circulation pump heating
GP2	Circulation pump hot water
RN25	Overflow valve
QM10	Diverting valve
QM16	Diverting valve cooling
QN8	Shunt valve
QN9	Shunt valve brine system
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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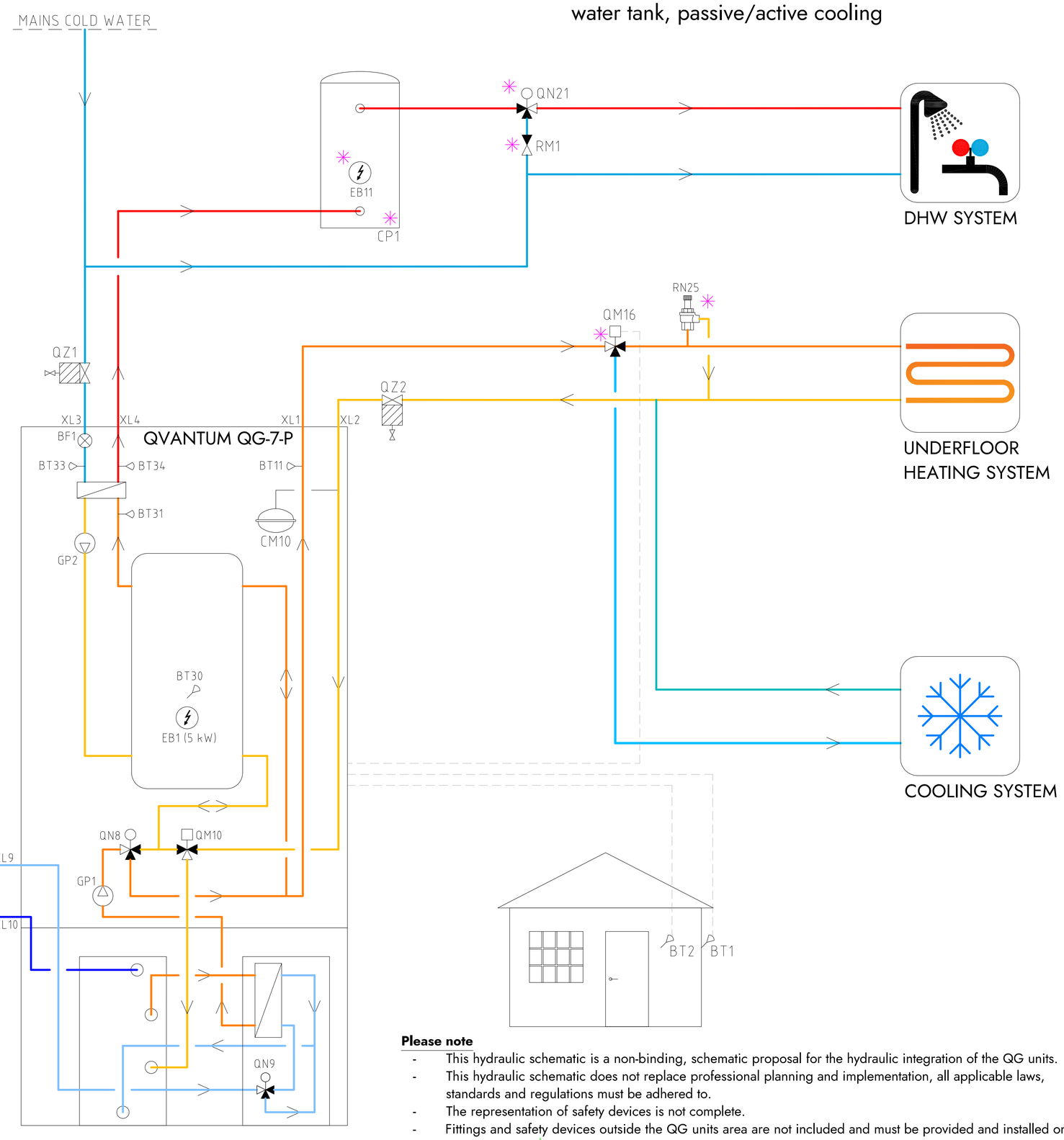
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Classification of objects in accordance with IEC 81346-2.

Information

QG-7-P, Underfloor heating & hot water with external hot water tank, passive/active cooling



COMPONENT DESIGNATIONS

BP5	Pressure gauge
BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CP1	DHW tank
CM10	Expansion vessel heating system
CM11	Expansion vessel brine system
EB1	Immersion heater
EB11	Immersion heater
FL3	Safety valve brine system
GP1	Circulation pump heating
GP2	Circulation pump hot water
RM1	Non return valve hot water
RN25	Overflow valve
QM10	Diverting valve
QM16	Diverting valve cooling
QN8	Shunt valve
QN9	Shunt valve brine system
QN21	Thermostatic mixing valve (35-60°C)
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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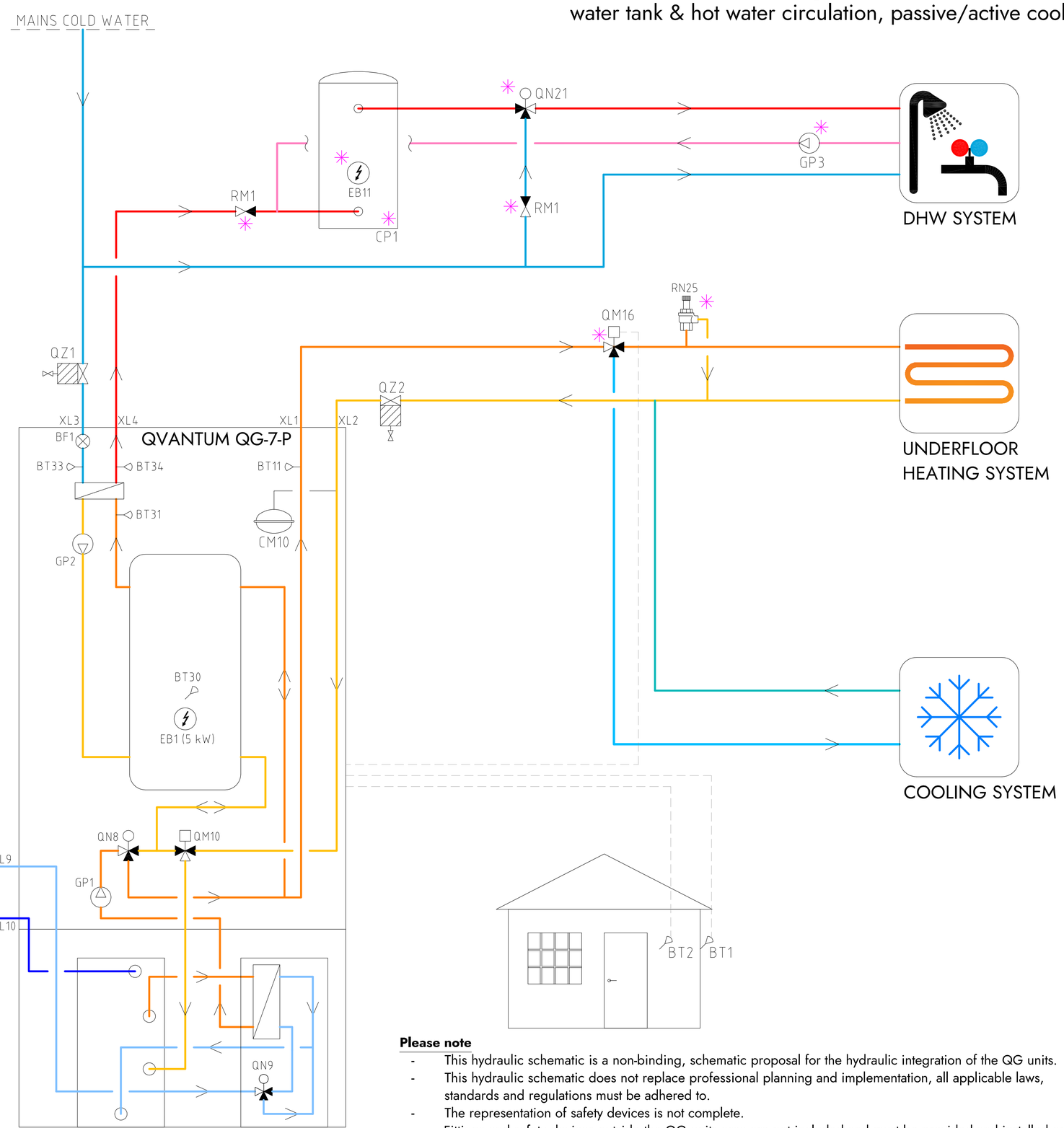
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Classification of objects in accordance with IEC 81346-2.

Information

QG-7-P, Underfloor heating & hot water with external hot water tank & hot water circulation, passive/active cooling



COMPONENT DESIGNATIONS

BP5	Pressure gauge
BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CP1	DHW tank
CM10	Expansion vessel heating system
CM11	Expansion vessel brine system
EB1	Immersion heater
EB11	Immersion heater
FL3	Safety valve brine system
GP1	Circulation pump heating
GP2	Circulation pump hot water
GP3	Circulation pump DHW return
RM1	Non return valve hot water
RN25	Overflow valve
QM10	Diverting valve
QM16	Diverting valve cooling
QN8	Shunt valve
QN9	Shunt valve brine system
QN21	Thermostatic mixing valve (35-60°C)
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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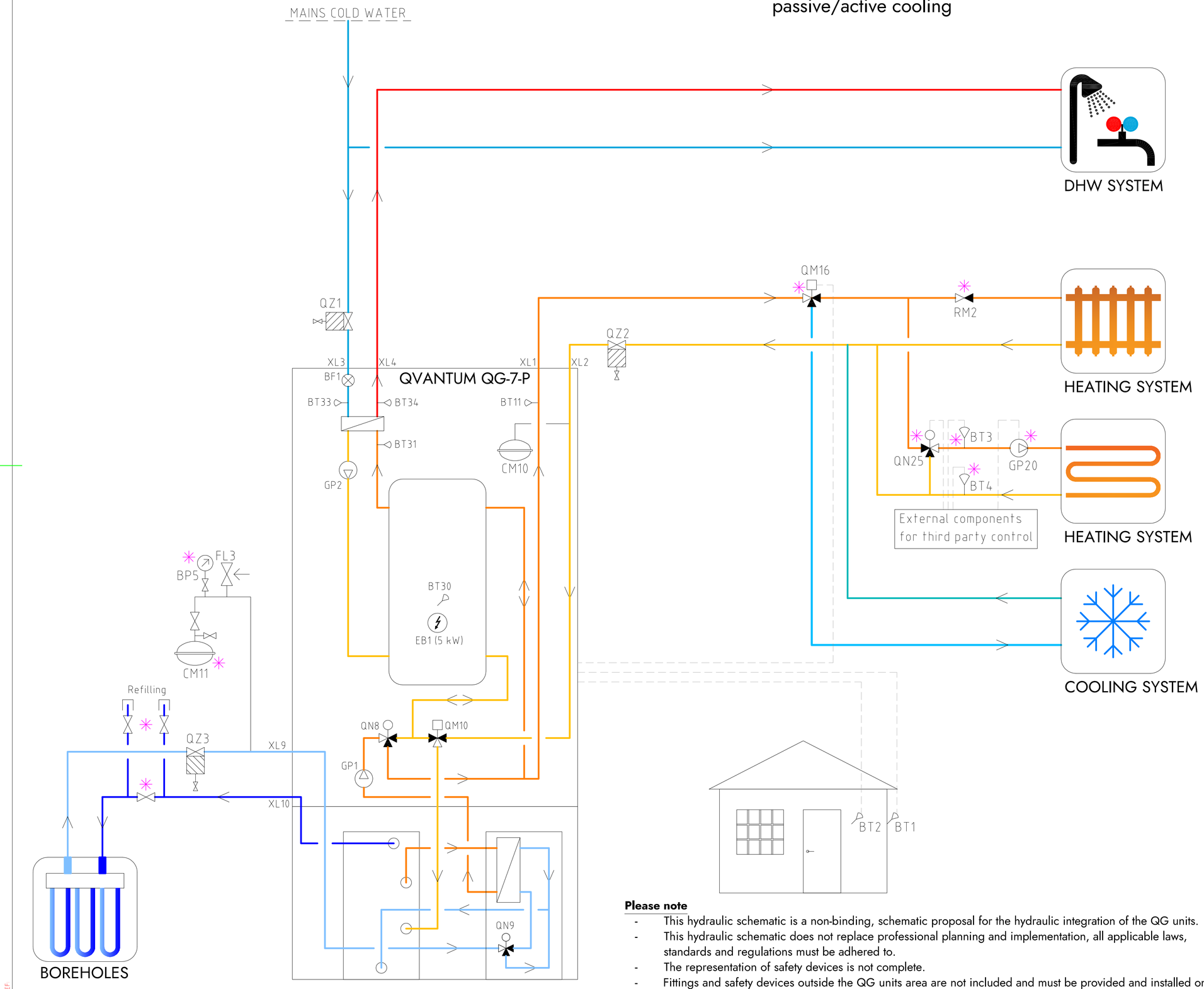
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Classification of objects in accordance with IEC 81346-2.

Information

QG-7-P, Heating & hot water, second heating system, passive/active cooling



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COMPONENT DESIGNATIONS

BP5	Pressure gauge
BT1	Outdor sensor
BT2	Room sensor
BT3	Heating flow, sec heat system
BT4	Heating return, sec heat system
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CM10	Expansion vessel heating system
CM11	Expansion vessel brine system
EB1	Immersion heater
FL3	Safety valve brine system
GP1	Circulation pump heating
GP2	Circulation pump hot water
GP20	Circulation pump, sec heat system
RM2	Non return valve heating system
QM10	Diverting valve
QM16	Diverting valve cooling
QN8	Shunt valve
QN9	Shunt valve brine system
QN25	Shunt valve, sec heat system
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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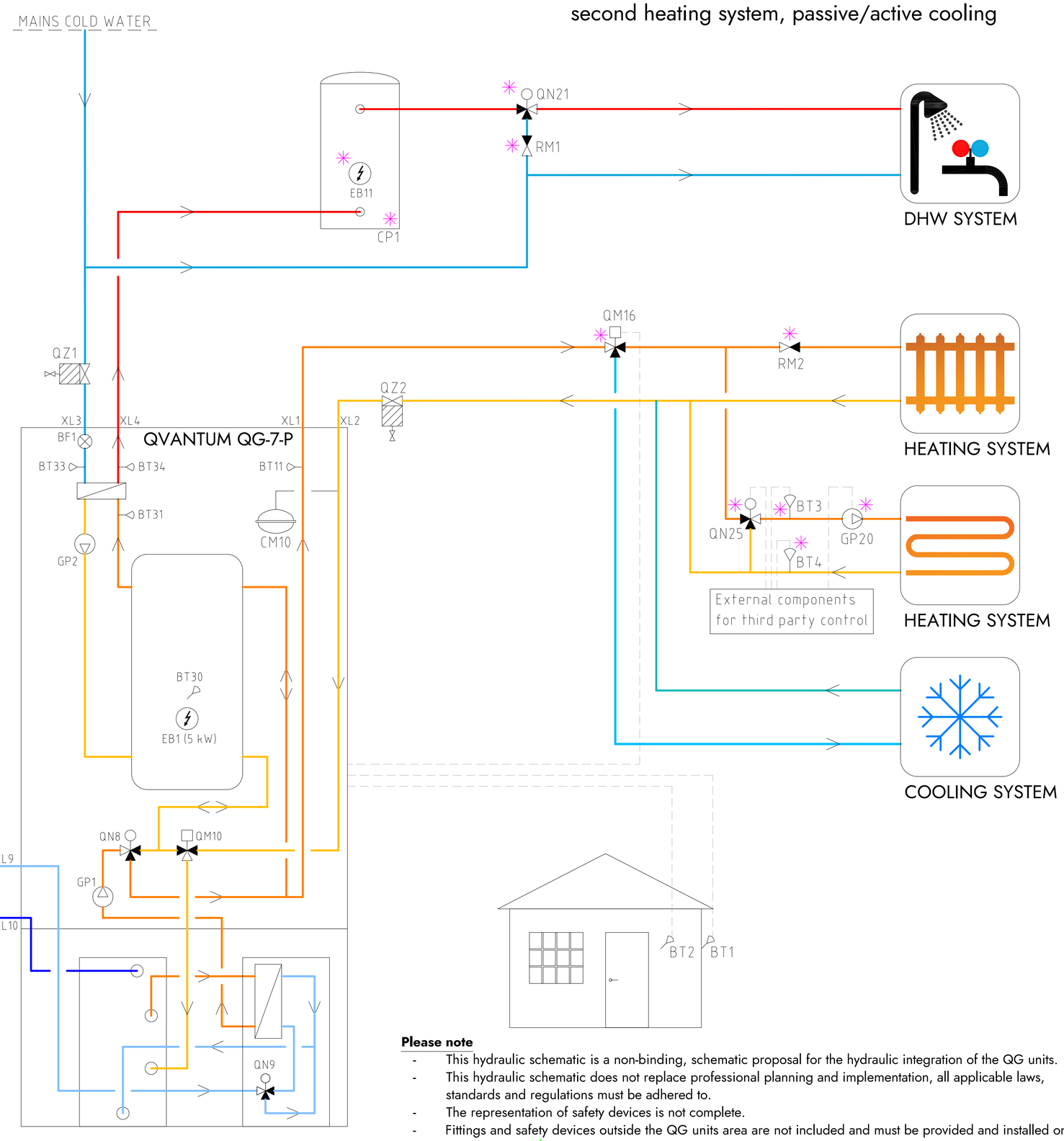
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Classification of objects in accordance with IEC 81346-2.

Information

QG-7-P, Heating & hot water with external hot water tank, second heating system, passive/active cooling



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COMPONENT DESIGNATIONS

BP5	Pressure gauge
BT1	Outdor sensor
BT2	Room sensor
BT3	Heating flow, sec heat system
BT4	Heating return, sec heat system
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CP1	DHW tank
CM10	Expansion vessel heating system
CM11	Expansion vessel brine system
EB1	Immersion heater
EB11	Immersion heater
FL3	Safety valve brine system
GP1	Circulation pump heating
GP2	Circulation pump hot water
GP20	Circulation pump, sec heat system
RM1	Non return valve hot water
RM2	Non return valve heating system
QM10	Diverting valve
QM16	Diverting valve cooling
QN8	Shunt valve
QN9	Shunt valve brine system
QN21	Thermostatic mixing valve (35-60°C)
QN25	Shunt valve, sec heat system
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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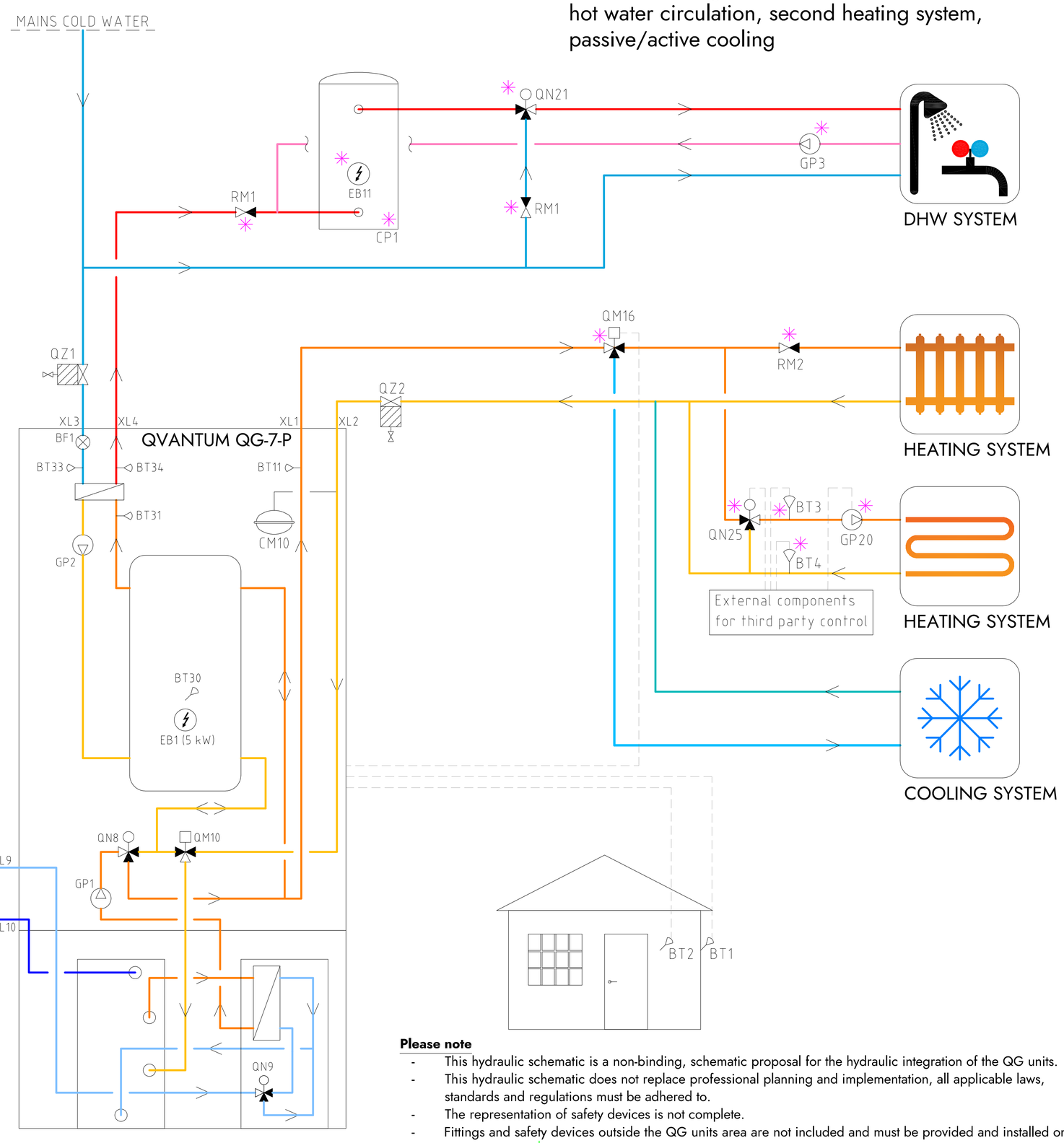
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Classification of objects in accordance with IEC 81346-2.

Information

QG-7-P, Heating & hot water with external hot water tank & hot water circulation, second heating system, passive/active cooling



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COMPONENT DESIGNATIONS

BP5	Pressure gauge
BT1	Outdor sensor
BT2	Room sensor
BT3	Heating flow, sec heat system
BT4	Heating return, sec heat system
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CP1	DHW tank
CM10	Expansion vessel heating system
CM11	Expansion vessel brine system
EB1	Immersion heater
EB11	Immersion heater
FL3	Safety valve brine system
GP1	Circulation pump heating
GP2	Circulation pump hot water
GP3	Circulation pump DHW return
GP20	Circulation pump, sec heat system
RM1	Non return valve hot water
RM2	Non return valve heating system
QM10	Diverting valve
QM16	Diverting valve cooling
QN8	Shunt valve
QN9	Shunt valve brine system
QN21	Thermostatic mixing valve (35-60°C)
QN25	Shunt valve, sec heat system
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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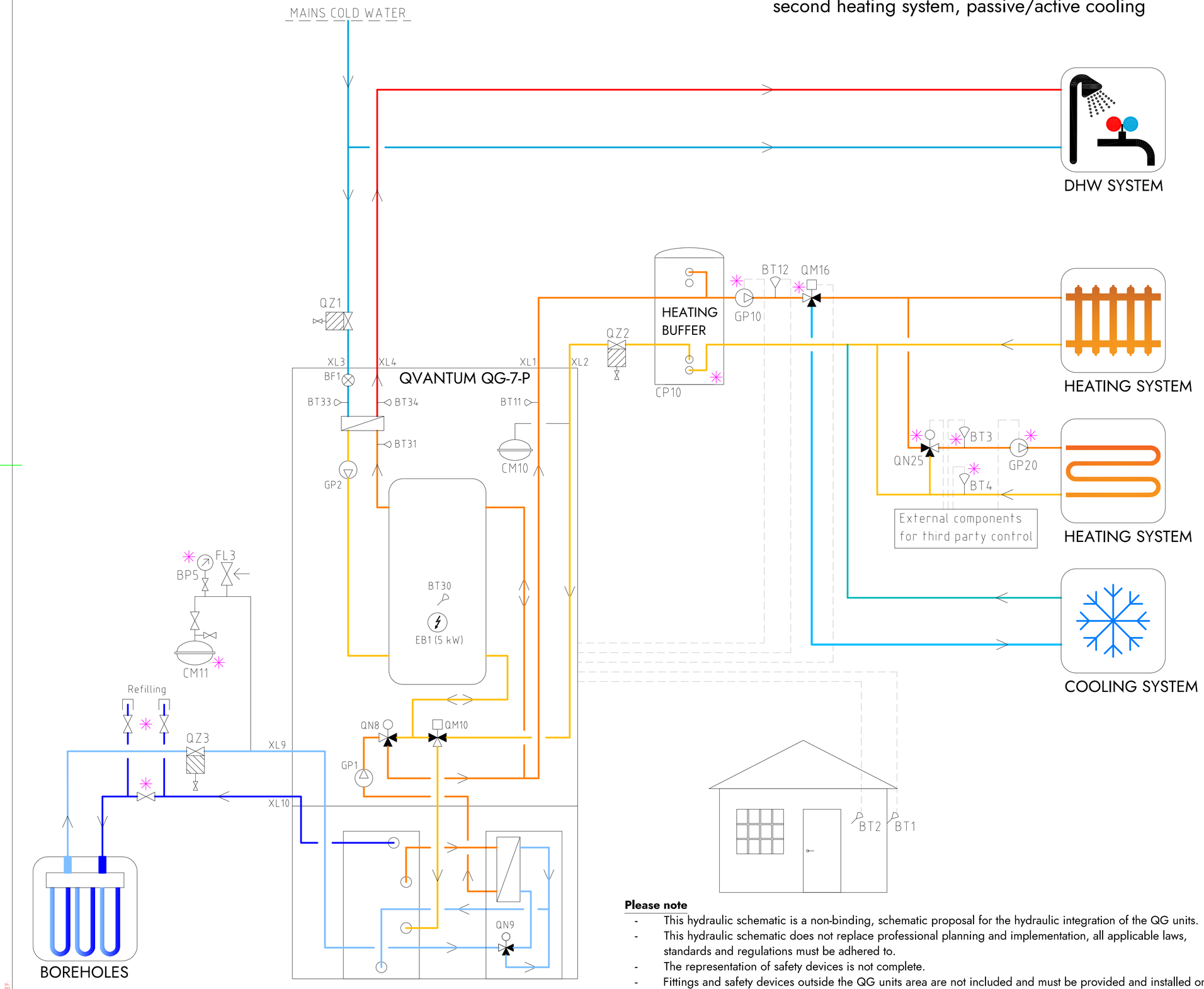
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Classification of objects in accordance with IEC 81346-2.

Information

QG-7-P, Heating & hot water, external circulation pump, second heating system, passive/active cooling



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COMPONENT DESIGNATIONS

BP5	Pressure gauge
BT1	Outdor sensor
BT2	Room sensor
BT3	Heating flow, sec heat system
BT4	Heating return, sec heat system
BT11	Heating flow temperature
BT12	External flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CM10	Expansion vessel heating system
CM11	Expansion vessel brine system
EB1	Immersion heater
FL3	Safety valve brine system
GP1	Circulation pump heating
GP2	Circulation pump hot water
GP10	Circulation pump, heat system
GP20	Circulation pump, sec heat system
QM10	Diverting valve
QM16	Diverting valve cooling
QN8	Shunt valve
QN9	Shunt valve brine system
QN25	Shunt valve, sec heat system
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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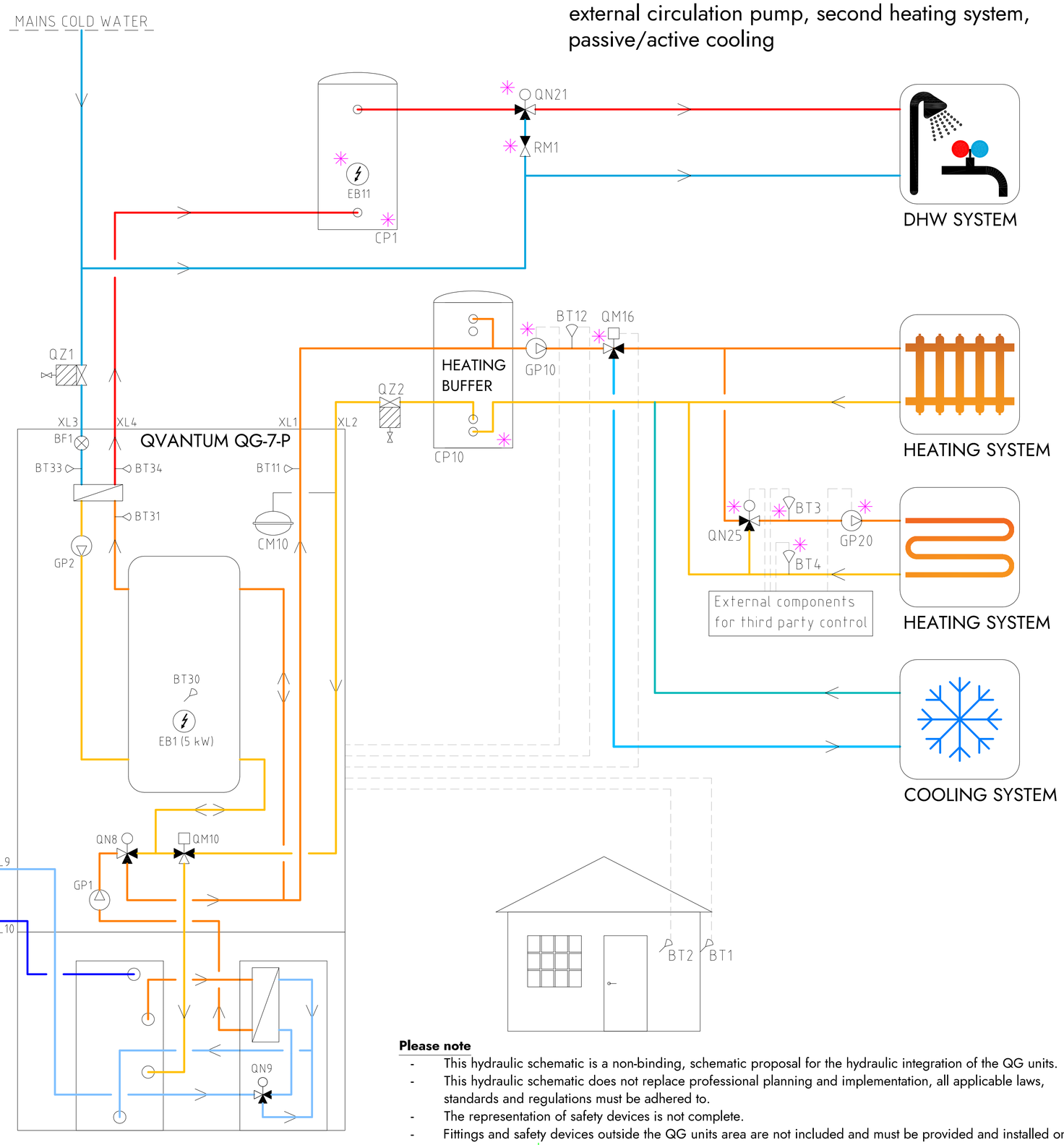
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Classification of objects in accordance with IEC 81346-2.

Information

QG-7-P, Heating & hot water with external hot water tank, external circulation pump, second heating system, passive/active cooling



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BP5	Pressure gauge
BT1	Outdor sensor
BT2	Room sensor
BT3	Heating flow, sec heat system
BT4	Heating return, sec heat system
BT11	Heating flow temperature
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BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CP1	DHW tank
CM10	Expansion vessel heating system
CM11	Expansion vessel brine system
EB1	Immersion heater
EB11	Immersion heater
FL3	Safety valve brine system
GP1	Circulation pump heating
GP2	Circulation pump hot water
GP10	Circulation pump, heat system
GP20	Circulation pump, sec heat system
QM10	Diverting valve
QM16	Diverting valve cooling
RM1	Non return valve hot water
QN8	Shunt valve
QN9	Shunt valve brine system
QN21	Thermostatic mixing valve (35-60°C)
QN25	Shunt valve, sec heat system
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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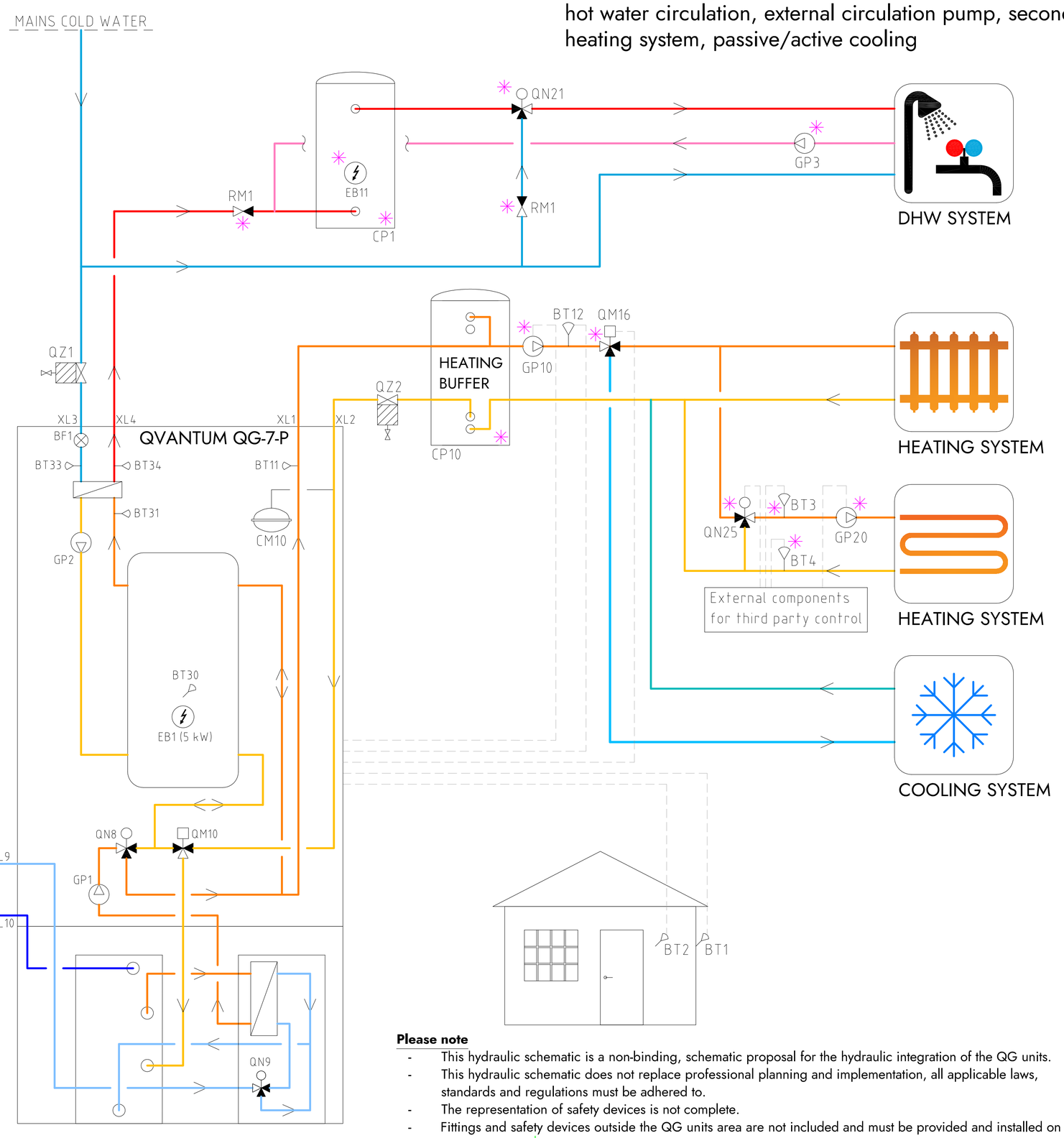
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Classification of objects in accordance with IEC 81346-2.

Information

QG-7-P, Heating & hot water with external hot water tank & hot water circulation, external circulation pump, second heating system, passive/active cooling



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BP5	Pressure gauge
BT1	Outdor sensor
BT2	Room sensor
BT3	Heating flow, sec heat system
BT4	Heating return, sec heat system
BT11	Heating flow temperature
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BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
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CM10	Expansion vessel heating system
CM11	Expansion vessel brine system
EB1	Immersion heater
EB11	Immersion heater
FL3	Safety valve brine system
GP1	Circulation pump heating
GP2	Circulation pump hot water
GP3	Circulation pump DHW return
GP10	Circulation pump, heat system
GP20	Circulation pump, sec heat system
RM1	Non return valve hot water
QM10	Diverting valve
QM16	Diverting valve cooling
QN8	Shunt valve
QN9	Shunt valve brine system
QN21	Thermostatic mixing valve (35-60°C)
QN25	Shunt valve, sec heat system
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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QVANTUM
HEAT PUMPS FOR SUSTAINABLE CITIES

QVANTUM ENERGI AB
Ji-te gatan 7, 265 38 Åstorp

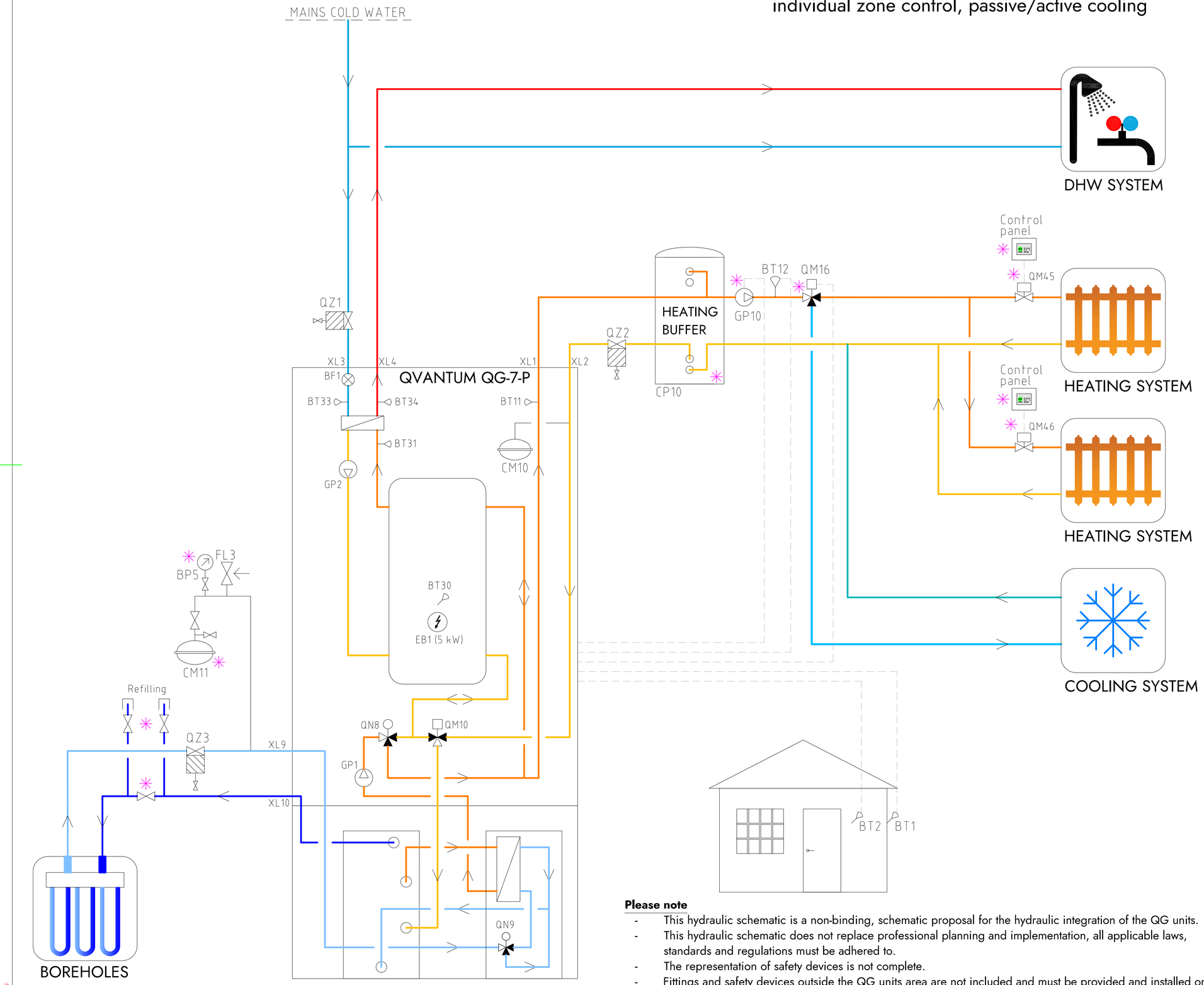
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Classification of objects in accordance with IEC 81346-2.

Information

QG-7-P, Heating & hot water, external circulation pump, individual zone control, passive/active cooling



Please note

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- The representation of safety devices is not complete.
- Fittings and safety devices outside the QG units area are not included and must be provided and installed on site.

COMPONENT DESIGNATIONS

BP5	Pressure gauge
BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT12	External flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CM10	Expansion vessel heating system
CM11	Expansion vessel brine system
EB1	Immersion heater
FL3	Safety valve brine system
GP1	Circulation pump heating
GP2	Circulation pump hot water
GP10	Circulation pump, heat system
QM10	Diverting valve
QM16	Diverting valve cooling
QM45	Zone valve
QM46	Zone valve
QN8	Shunt valve
QN9	Shunt valve brine system
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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QVANTUM
HEAT PUMPS FOR SUSTAINABLE CITIES

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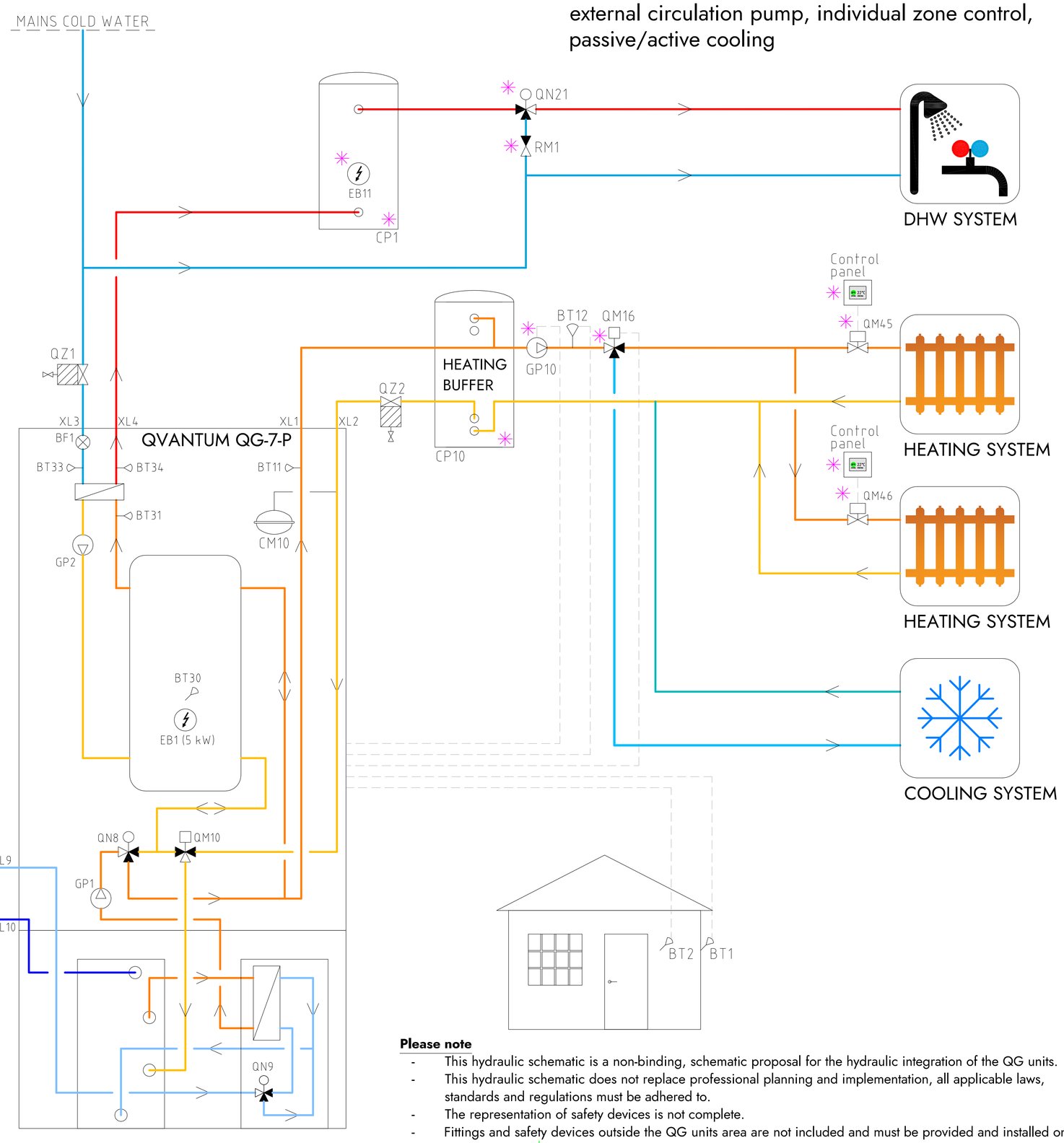
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Classification of objects in accordance with IEC 81346-2.

Information

QG-7-P, Heating & hot water with external hot water tank, external circulation pump, individual zone control, passive/active cooling



Please note

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COMPONENT DESIGNATIONS

BP5	Pressure gauge
BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT12	External flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CP1	DHW tank
CM10	Expansion vessel heating system
CM11	Expansion vessel brine system
EB1	Immersion heater
EB11	Immersion heater
FL3	Safety valve brine system
GP1	Circulation pump heating
GP2	Circulation pump hot water
GP10	Circulation pump, heat system
RM1	Non return valve hot water
QM10	Diverting valve
QM16	Diverting valve cooling
QM45	Zone valve
QM46	Zone valve
QN8	Shunt valve
QN9	Shunt valve brine system
QN21	Thermostatic mixing valve (35-60°C)
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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QVANTUM
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QVANTUM ENERGI AB
Ji-te gatan 7, 265 38 Åstorp

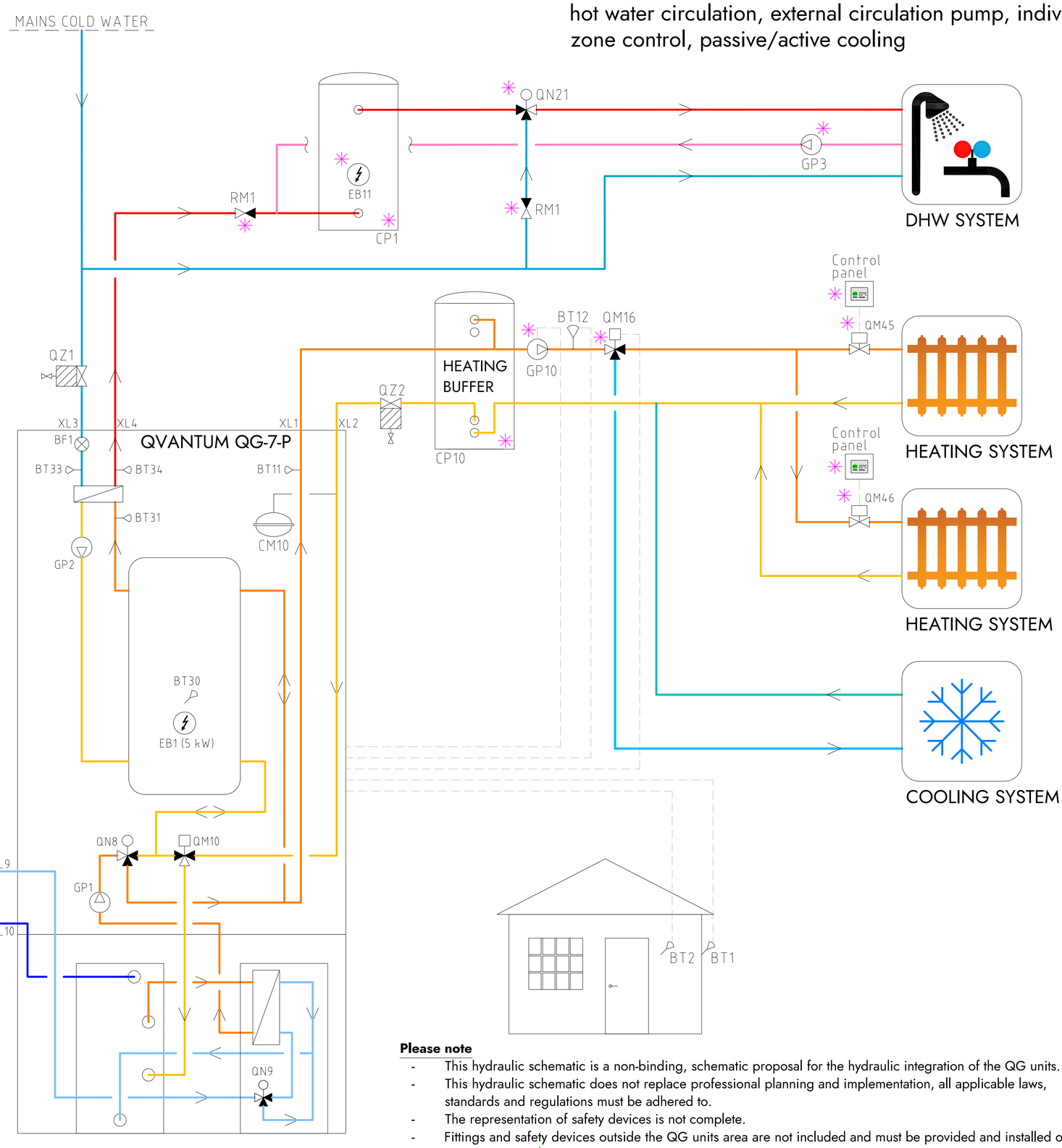
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Classification of objects in accordance with IEC 81346-2.

Information

QG-7-P, Heating & hot water with external hot water tank & hot water circulation, external circulation pump, individual zone control, passive/active cooling



Please note

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COMPONENT DESIGNATIONS

BP5	Pressure gauge
BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT12	External flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CP1	DHW tank
CM10	Expansion vessel heating system
CM11	Expansion vessel brine system
EB1	Immersion heater
EB11	Immersion heater
FL3	Safety valve brine system
GP1	Circulation pump heating
GP2	Circulation pump hot water
GP3	Circulation pump DHW return
GP10	Circulation pump, heat system
RM1	Non return valve hot water
QM10	Diverting valve
QM16	Diverting valve cooling
QM45	Zone valve
QM46	Zone valve
QN8	Shunt valve
QN9	Shunt valve brine system
QN21	Thermostatic mixing valve (35-60°C)
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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QVANTUM
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QVANTUM QG-7-P-C

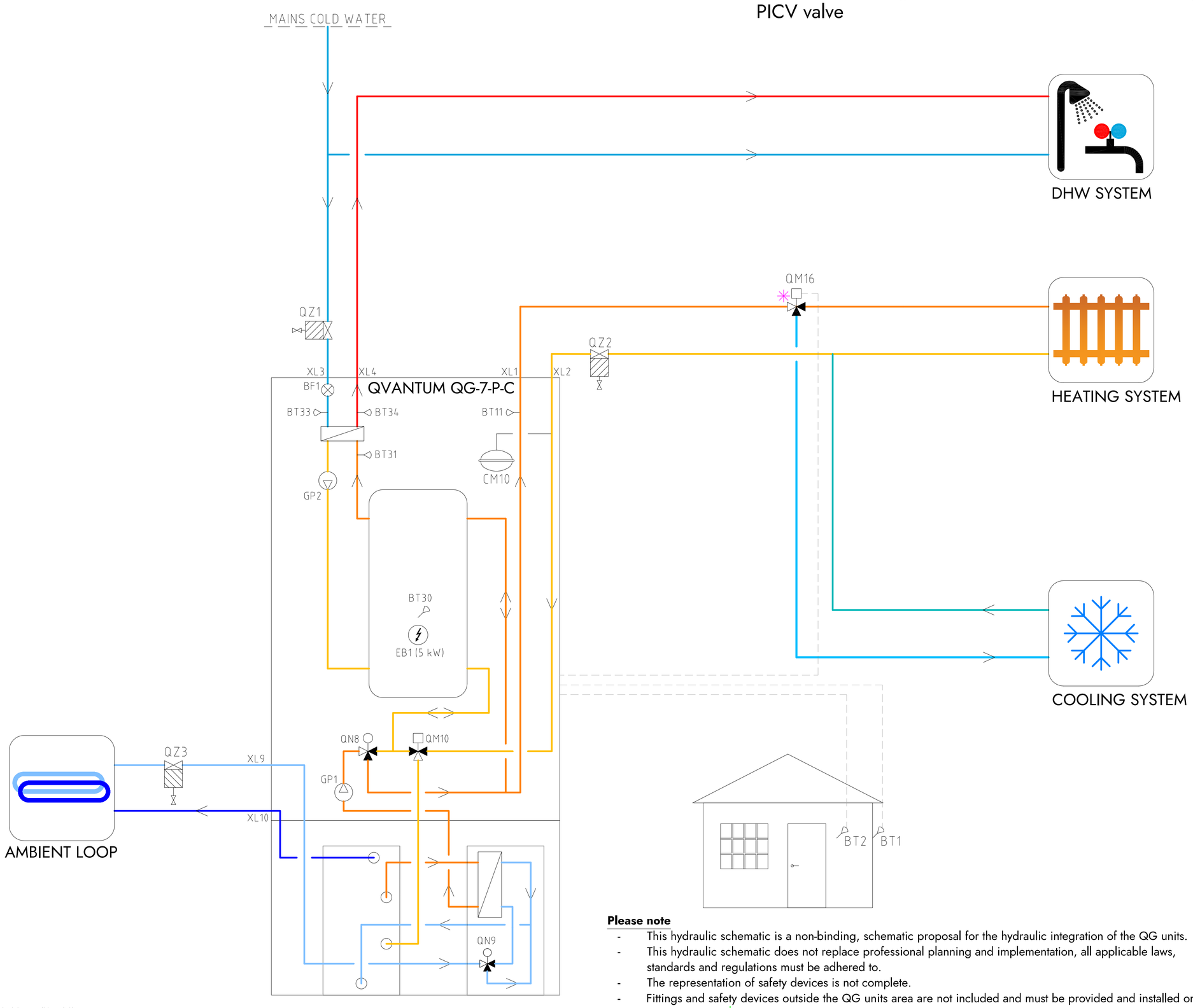
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Subject to possible printing errors.

Classification of objects in accordance with IEC 81346-2.

Information

QG-7-P-C, Heating & hot water, passive/active cooling, PICV valve



COMPONENT DESIGNATIONS

BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CM10	Expansion vessel heating system
EB1	Immersion heater
GP1	Circulation pump heating
GP2	Circulation pump hot water
QM10	Diverting valve
QM16	Diverting valve cooling
QN8	Shunt valve
QN9	Shunt valve brine system
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

Please note

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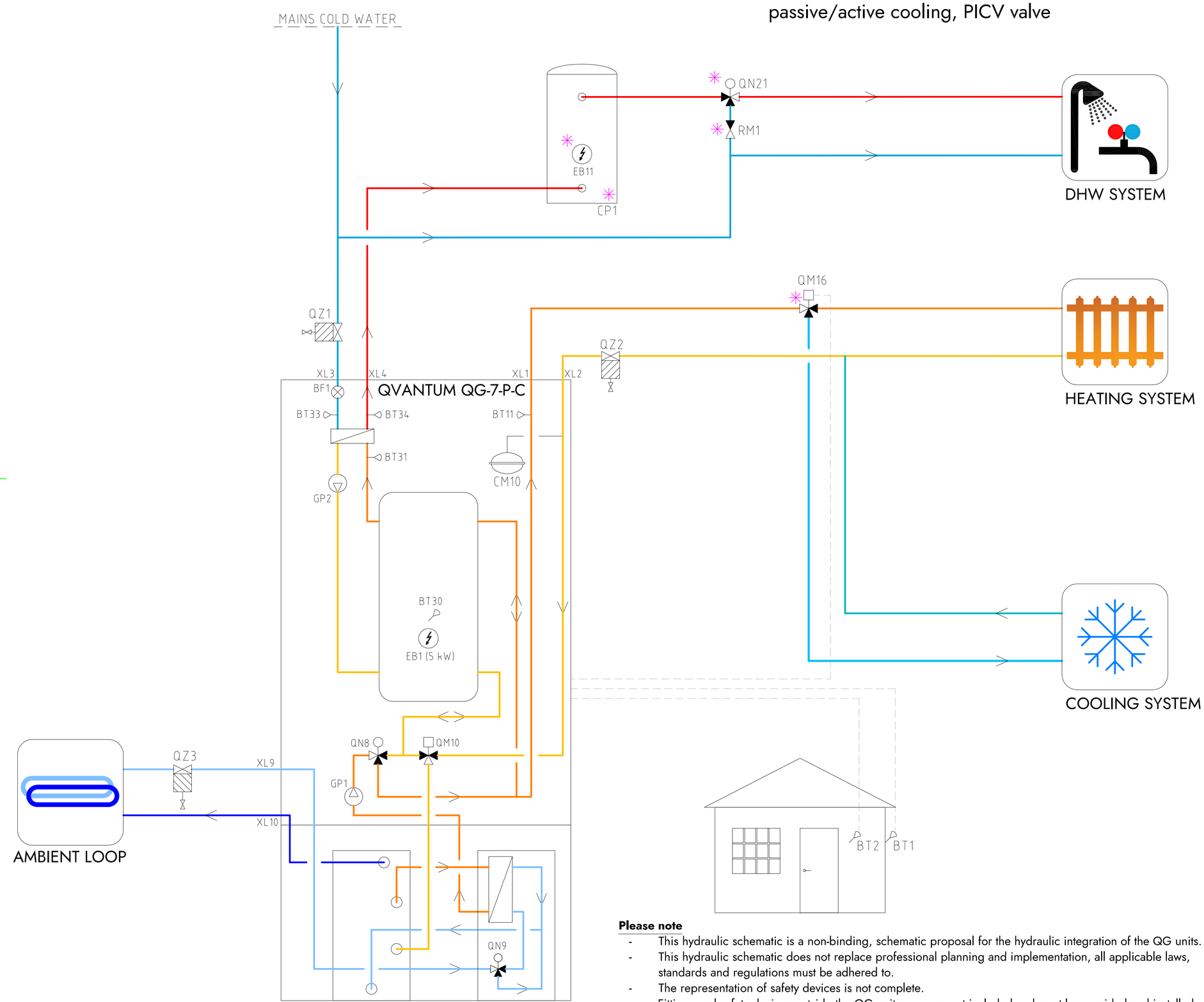
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Classification of objects in accordance with IEC 81346-2.

Information

QG-7-P-C, Heating & hot water with external hot water tank, passive/active cooling, PICV valve



COMPONENT DESIGNATIONS

BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CP1	DHW tank
CM10	Expansion vessel heating system
EB1	Immersion heater
EB11	Immersion heater
GP1	Circulation pump heating
GP2	Circulation pump hot water
RM1	Non return valve hot water
QM10	Diverting valve
QM16	Diverting valve cooling
QN8	Shunt valve
QN9	Shunt valve brine system
QN21	Thermostatic mixing valve (35-60°C)
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

Please note

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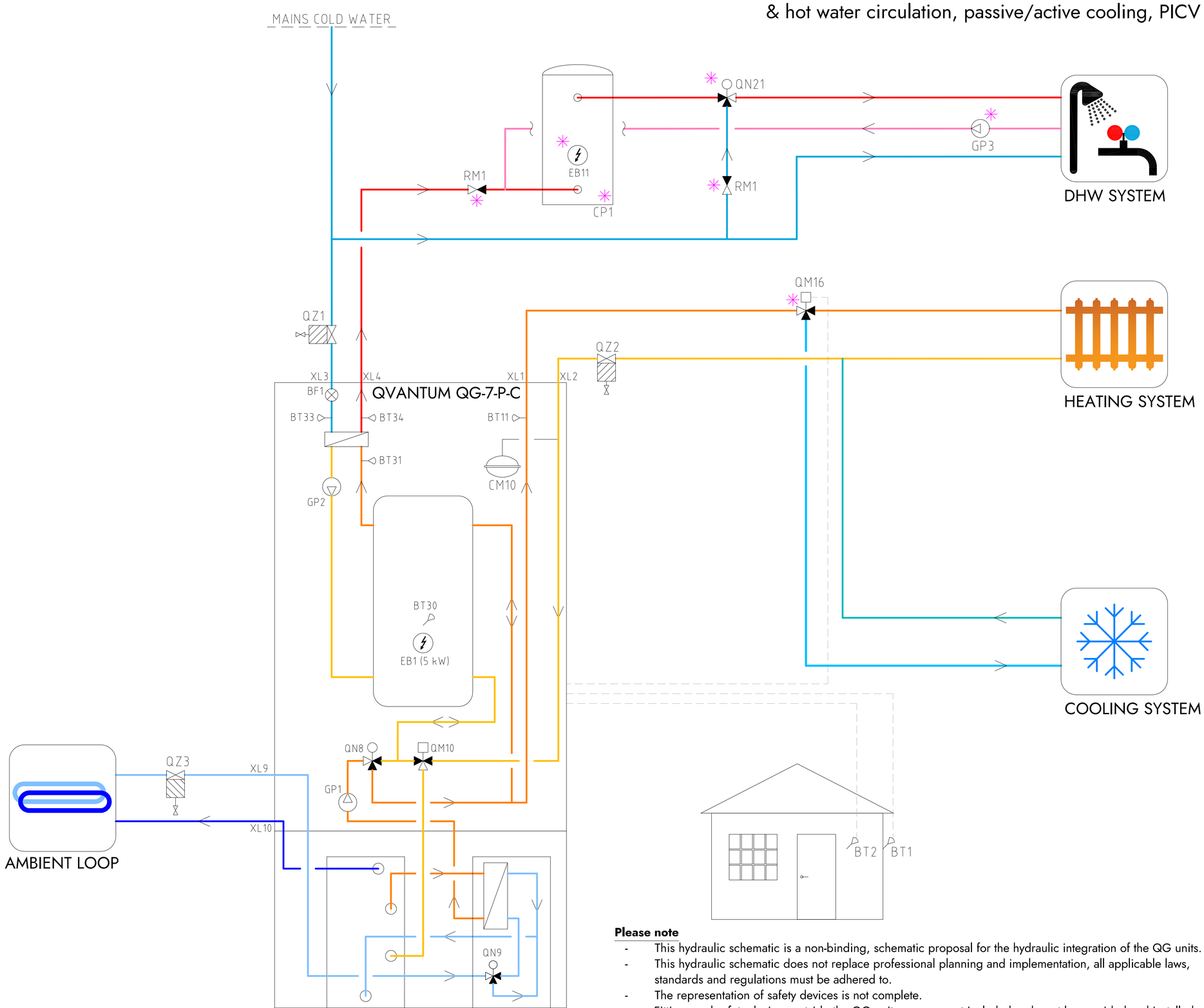
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Classification of objects in accordance with IEC 81346-2.

Information

QG-7-P-C, Heating & hot water with external hot water tank & hot water circulation, passive/active cooling, PICV valve



COMPONENT DESIGNATIONS

BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CP1	DHW tank
CM10	Expansion vessel heating system
EB1	Immersion heater
EB11	Immersion heater
GP1	Circulation pump heating
GP2	Circulation pump hot water
GP3	Circulation pump DHW return
RM1	Non return valve hot water
QM10	Diverting valve
QM16	Diverting valve cooling
QN8	Shunt valve
QN9	Shunt valve brine system
QN21	Thermostatic mixing valve (35-60°C)
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

Please note

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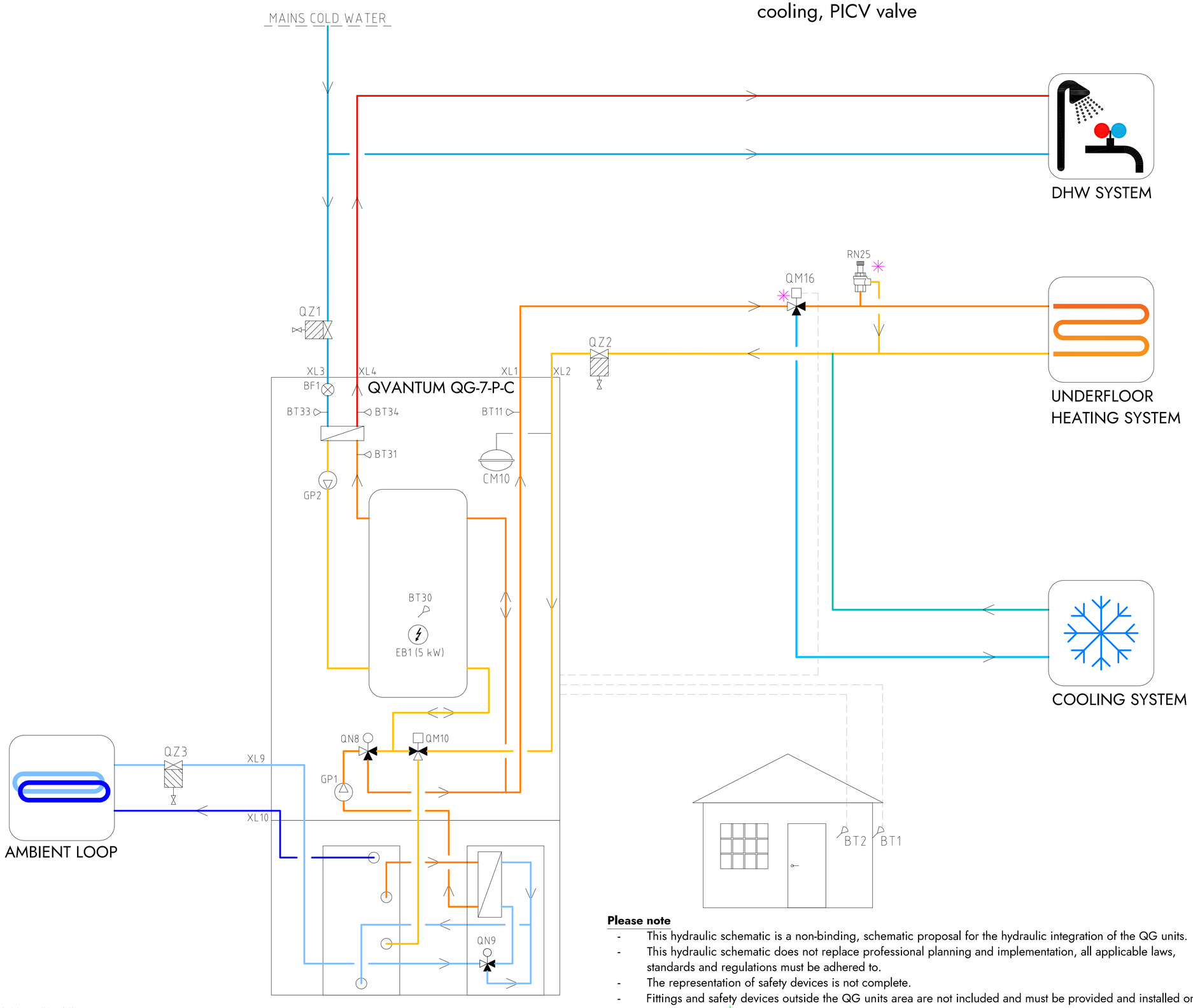
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Classification of objects in accordance with IEC 81346-2.

Information

QG-7-P-C, Underfloor heating & hot water, passive/active cooling, PICV valve



COMPONENT DESIGNATIONS

BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CM10	Expansion vessel heating system
EB1	Immersion heater
GP1	Circulation pump heating
GP2	Circulation pump hot water
RN25	Overflow valve
QM10	Diverting valve
QM16	Diverting valve cooling
QN8	Shunt valve
QN9	Shunt valve brine system
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

Please note

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Ji-te gatan 7, 265 38 Åstorp

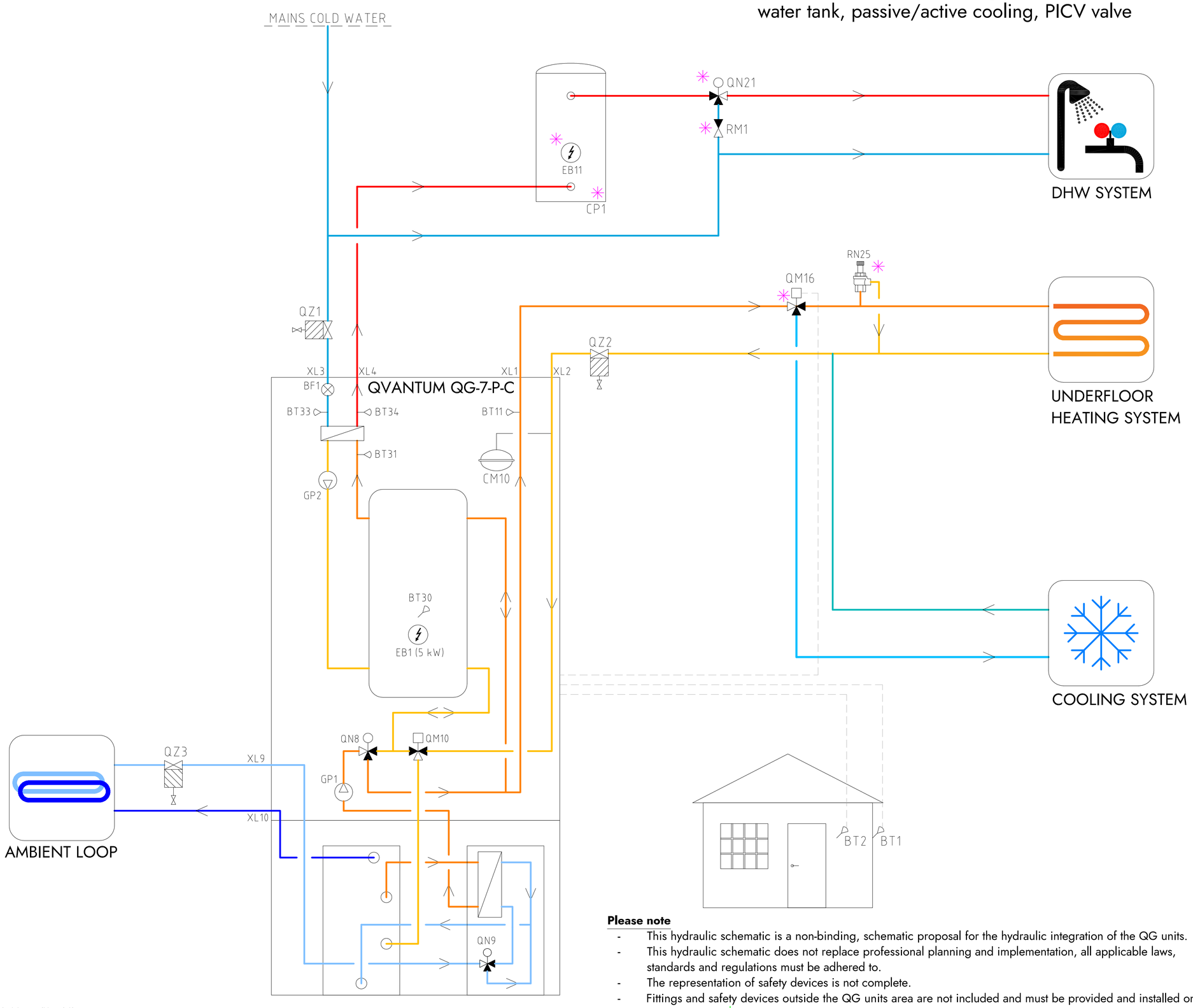
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Classification of objects in accordance with IEC 81346-2.

Information

QG-7-P-C, Underfloor heating & hot water with external hot water tank, passive/active cooling, PICV valve



COMPONENT DESIGNATIONS

BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CP1	DHW tank
CM10	Expansion vessel heating system
EB1	Immersion heater
EB11	Immersion heater
GP1	Circulation pump heating
GP2	Circulation pump hot water
RM1	Non return valve hot water
RN25	Overflow valve
QM10	Diverting valve
QM16	Diverting valve cooling
QN8	Shunt valve
QN9	Shunt valve brine system
QN21	Thermostatic mixing valve (35-60°C)
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

Please note

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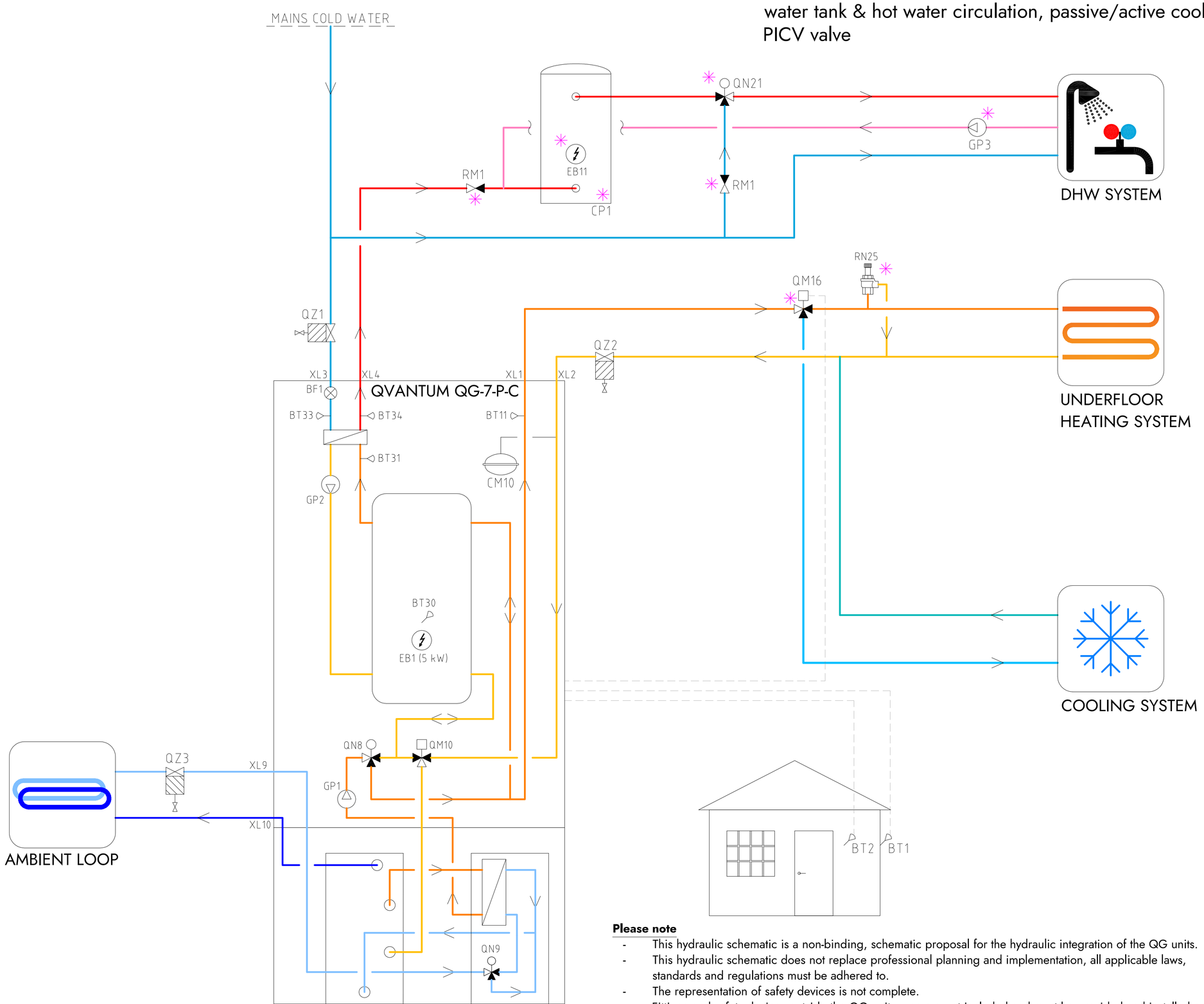
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Classification of objects in accordance with IEC 81346-2.

Information

QG-7-P-C, Underfloor heating & hot water with external hot water tank & hot water circulation, passive/active cooling, PICV valve



COMPONENT DESIGNATIONS

BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CP1	DHW tank
CM10	Expansion vessel heating system
EB1	Immersion heater
EB11	Immersion heater
GP1	Circulation pump heating
GP2	Circulation pump hot water
GP3	Circulation pump DHW return
RM1	Non return valve hot water
RN25	Overflow valve
QM10	Diverting valve
QM16	Diverting valve cooling
QN8	Shunt valve
QN9	Shunt valve brine system
QN21	Thermostatic mixing valve (35-60°C)
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

Please note

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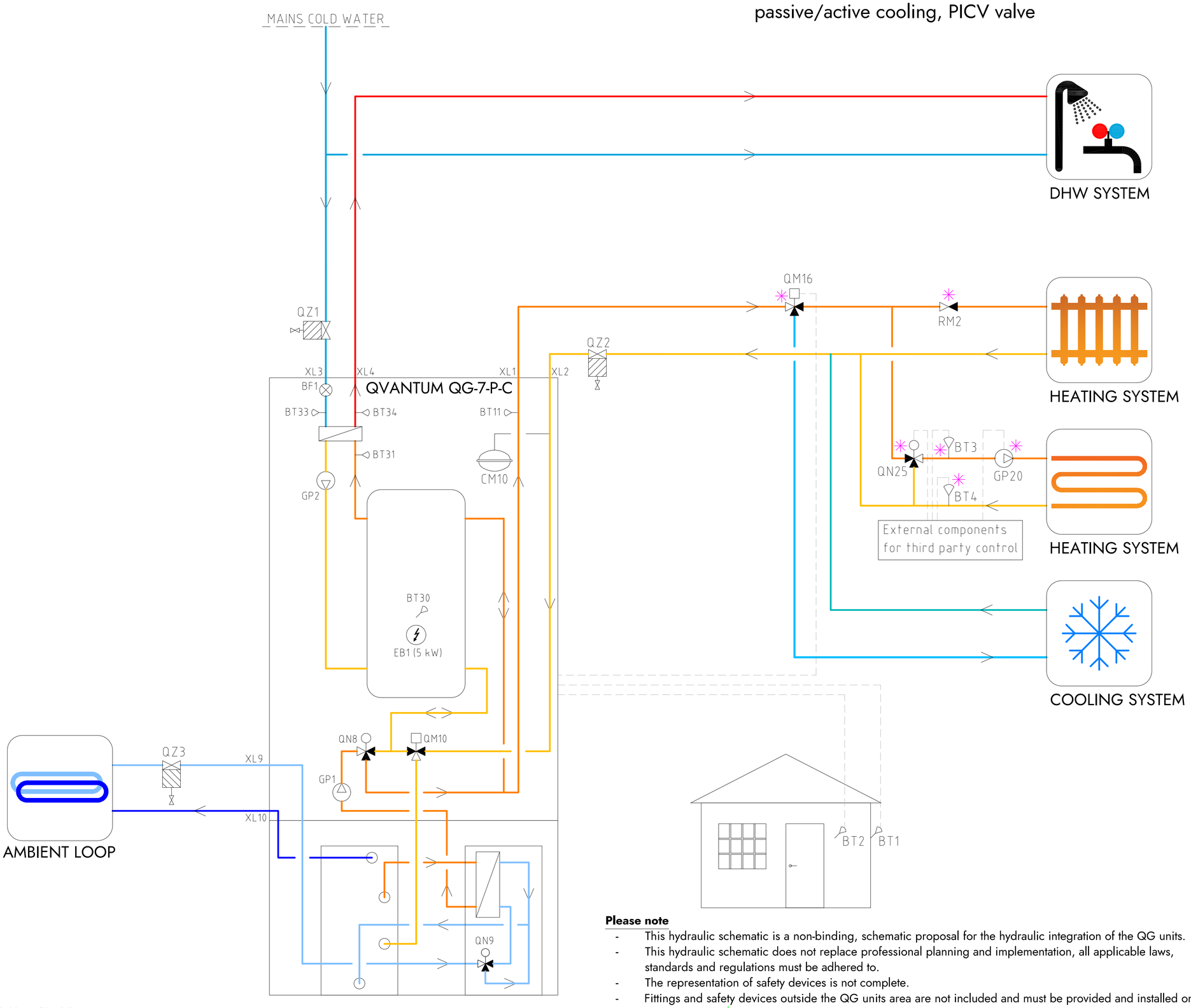
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Classification of objects in accordance with IEC 81346-2.

Information

QG-7-P-C, Heating & hot water, second heating system, passive/active cooling, PICV valve



COMPONENT DESIGNATIONS

BT1	Outdor sensor
BT2	Room sensor
BT3	Heating flow, sec heat system
BT4	Heating return, sec heat system
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CM10	Expansion vessel heating system
EB1	Immersion heater
GP1	Circulation pump heating
GP2	Circulation pump hot water
GP20	Circulation pump, sec heat system
RM2	Non return valve heating system
QM10	Diverting valve
QM16	Diverting valve cooling
QN8	Shunt valve
QN9	Shunt valve brine system
QN25	Shunt valve, sec heat system
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

Please note

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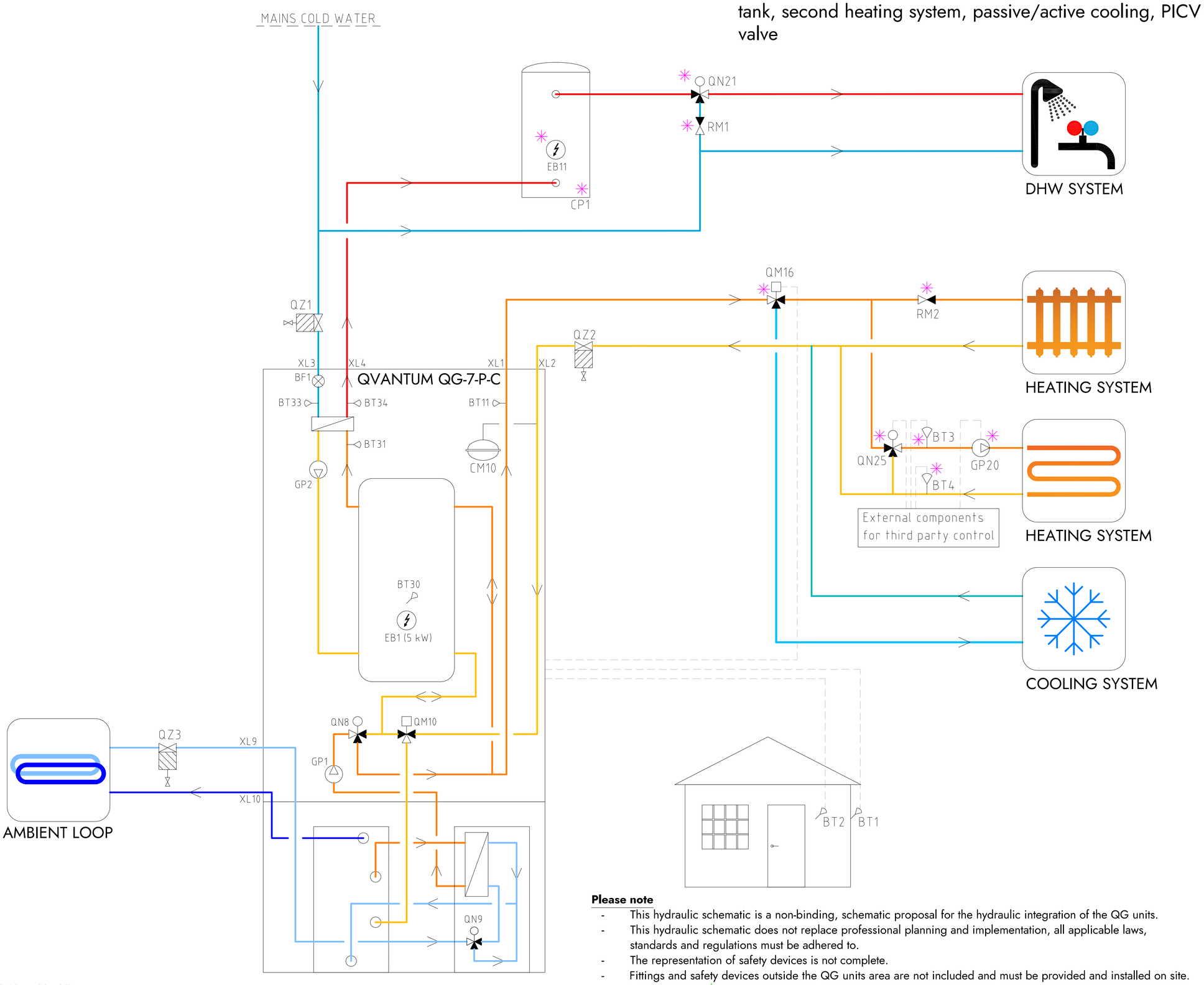
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Classification of objects in accordance with IEC 81346-2.

Information

QG-7-P-C, Heating & hot water with external hot water tank, second heating system, passive/active cooling, PICV valve



COMPONENT DESIGNATIONS

BT1	Outdor sensor
BT2	Room sensor
BT3	Heating flow, sec heat system
BT4	Heating return, sec heat system
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CP1	DHW tank
CM10	Expansion vessel heating system
EB1	Immersion heater
EB11	Immersion heater
GP1	Circulation pump heating
GP2	Circulation pump hot water
GP20	Circulation pump, sec heat system
RM1	Non return valve hot water
RM2	Non return valve heating system
QM10	Diverting valve
QM16	Diverting valve cooling
QN8	Shunt valve
QN9	Shunt valve brine system
QN21	Thermostatic mixing valve (35-60°C)
QN25	Shunt valve, sec heat system
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

Please note

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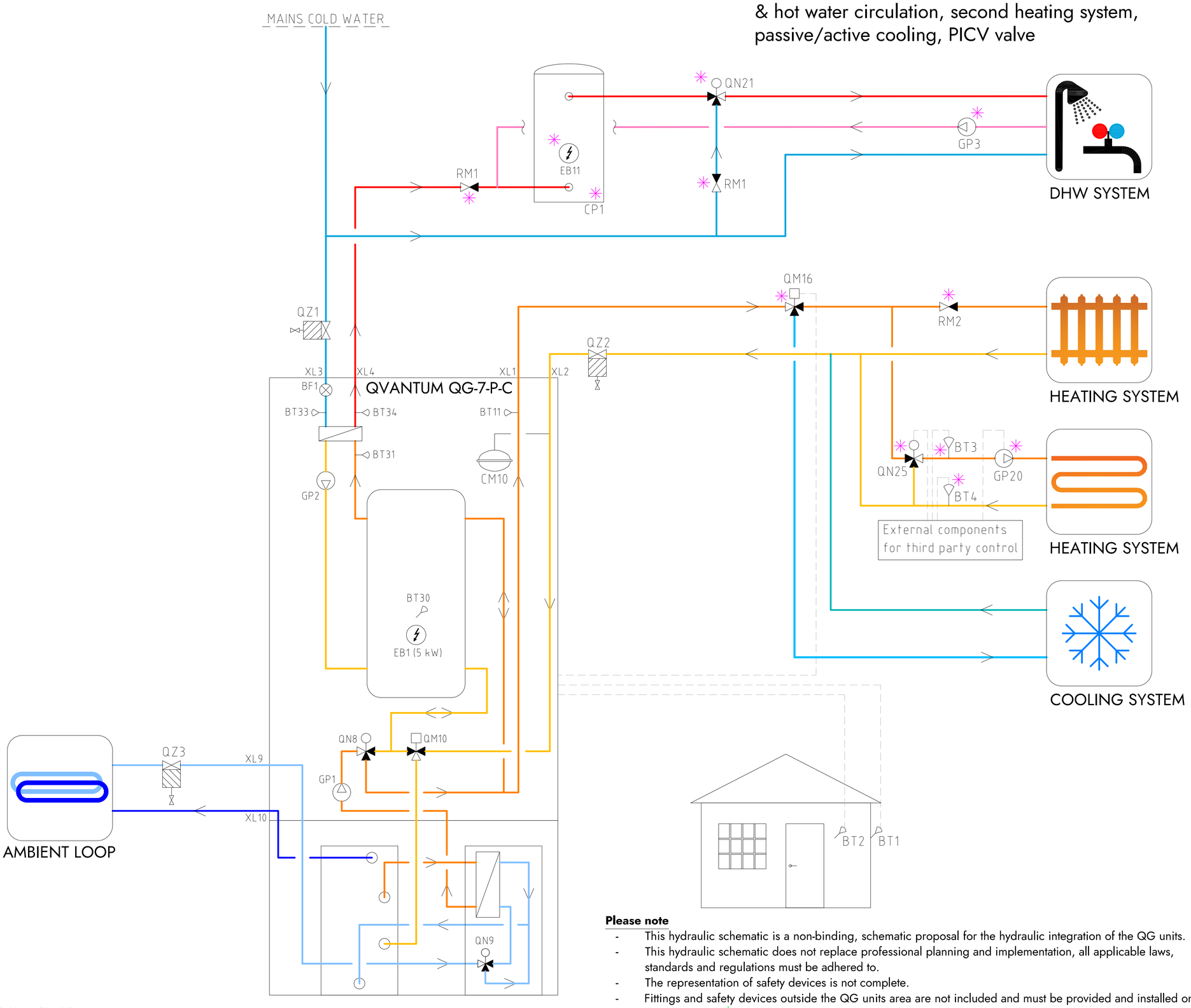
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Classification of objects in accordance with IEC 81346-2.

Information

QG-7-P-C, Heating & hot water with external hot water tank & hot water circulation, second heating system, passive/active cooling, PICV valve



COMPONENT DESIGNATIONS

BT1	Outdor sensor
BT2	Room sensor
BT3	Heating flow, sec heat system
BT4	Heating return, sec heat system
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CP1	DHW tank
CM10	Expansion vessel heating system
EB1	Immersion heater
EB11	Immersion heater
GP1	Circulation pump heating
GP2	Circulation pump hot water
GP3	Circulation pump DHW return
GP20	Circulation pump, sec heat system
RM1	Non return valve hot water
RM2	Non return valve heating system
QM10	Diverting valve
QM16	Diverting valve cooling
QN8	Shunt valve
QN9	Shunt valve brine system
QN21	Thermostatic mixing valve (35-60°C)
QN25	Shunt valve, sec heat system
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

Please note

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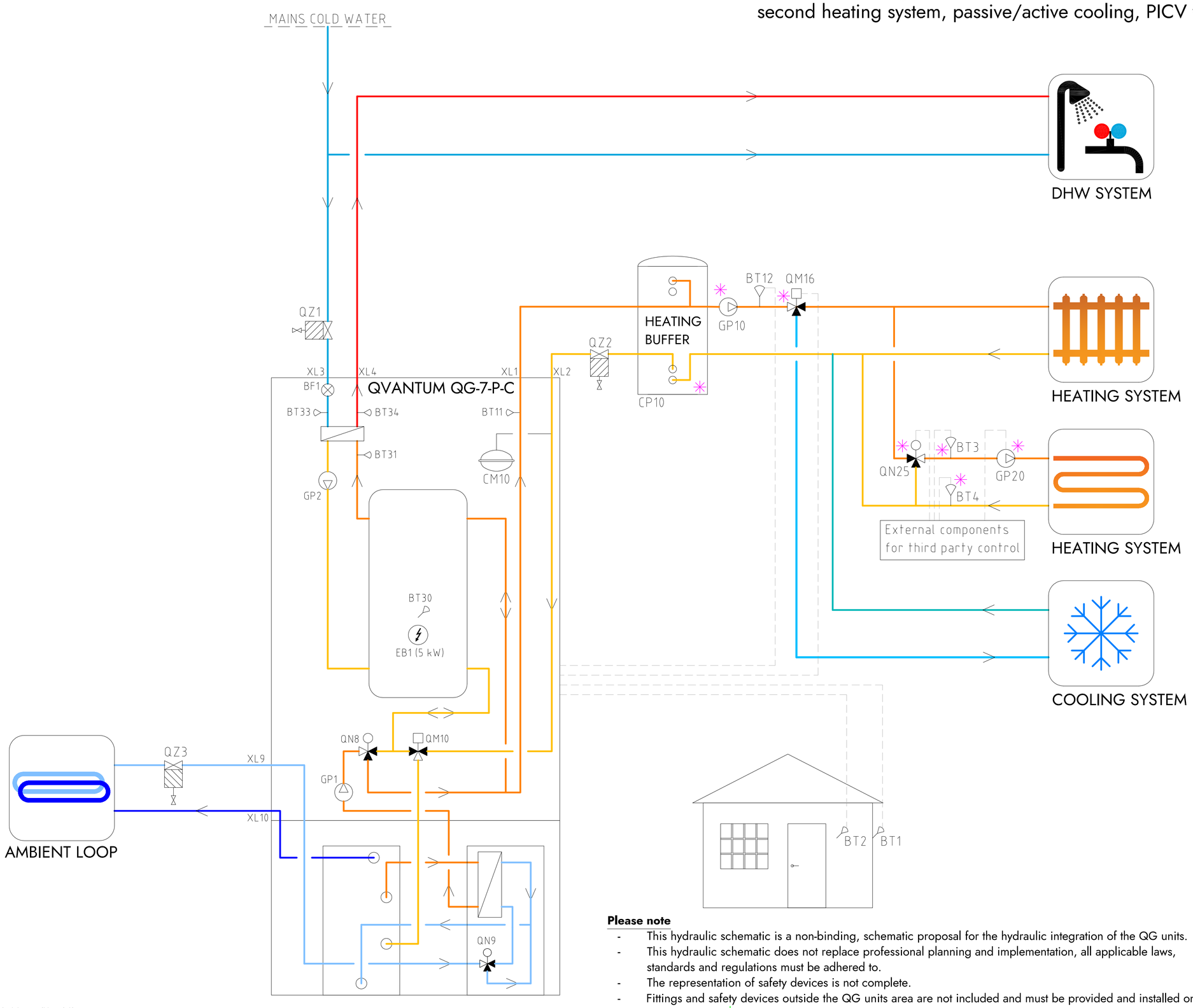
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Classification of objects in accordance with IEC 81346-2.

Information

QG-7-P-C, Heating & hot water, external circulation pump, second heating system, passive/active cooling, PICV valve



COMPONENT DESIGNATIONS

BT1	Outdor sensor
BT2	Room sensor
BT3	Heating flow, sec heat system
BT4	Heating return, sec heat system
BT11	Heating flow temperature
BT12	External flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CM10	Expansion vessel heating system
EB1	Immersion heater
GP1	Circulation pump heating
GP2	Circulation pump hot water
GP10	Circulation pump, heat system
GP20	Circulation pump, sec heat system
QM10	Diverting valve
QM16	Diverting valve cooling
QN8	Shunt valve
QN9	Shunt valve brine system
QN25	Shunt valve, sec heat system
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

Please note

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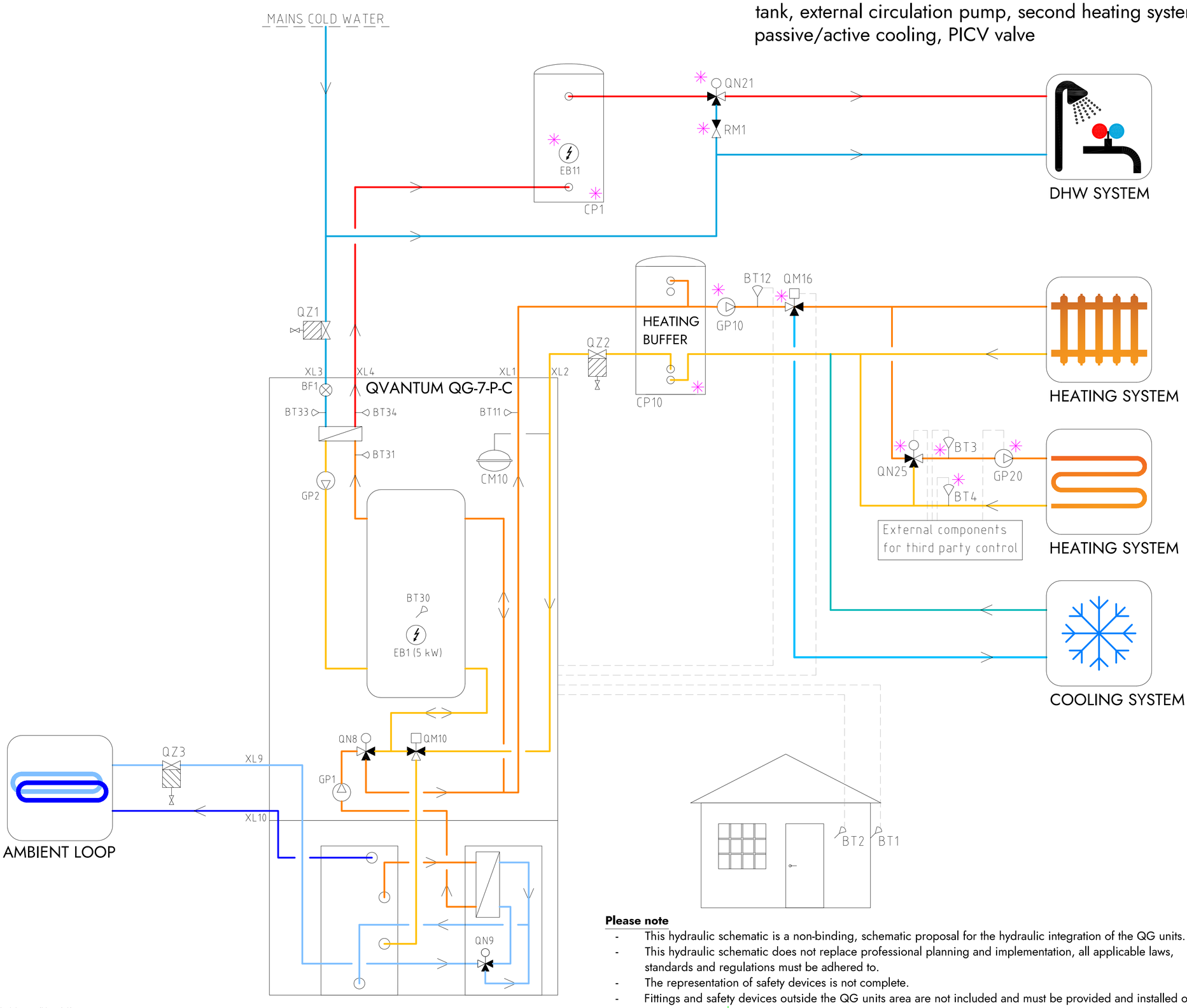
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Classification of objects in accordance with IEC 81346-2.

Information

QG-7-P-C, Heating & hot water with external hot water tank, external circulation pump, second heating system, passive/active cooling, PICV valve



COMPONENT DESIGNATIONS

BT1	Outdor sensor
BT2	Room sensor
BT3	Heating flow, sec heat system
BT4	Heating return, sec heat system
BT11	Heating flow temperature
BT12	External flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CP1	DHW tank
CM10	Expansion vessel heating system
EB1	Immersion heater
EB11	Immersion heater
GP1	Circulation pump heating
GP2	Circulation pump hot water
GP10	Circulation pump, heat system
GP20	Circulation pump, sec heat system
QM10	Diverting valve
QM16	Diverting valve cooling
RM1	Non return valve hot water
QN8	Shunt valve
QN9	Shunt valve brine system
QN21	Thermostatic mixing valve (35-60°C)
QN25	Shunt valve, sec heat system
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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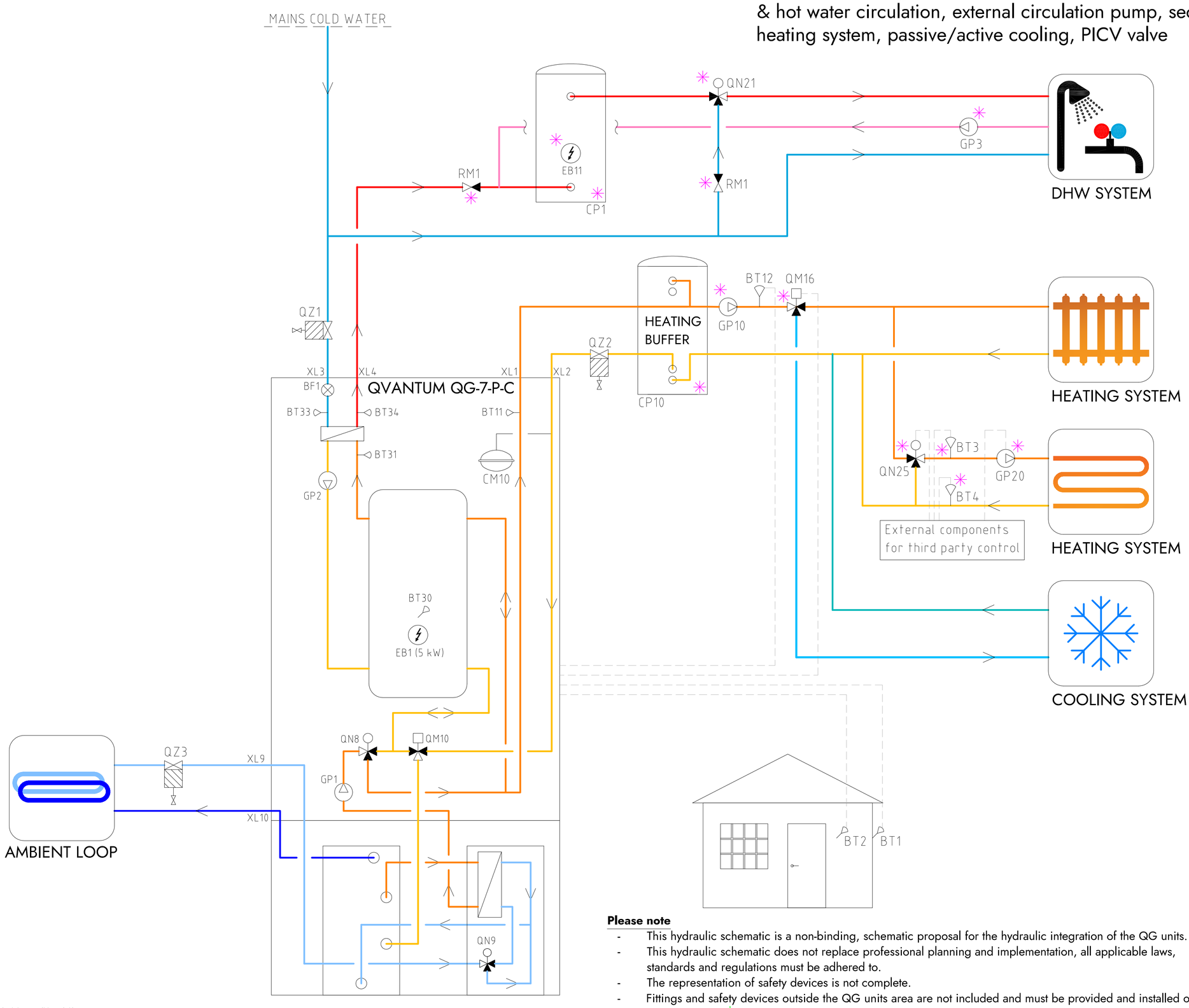
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Classification of objects in accordance with IEC 81346-2.

Information

QG-7-P-C, Heating & hot water with external hot water tank & hot water circulation, external circulation pump, second heating system, passive/active cooling, PICV valve



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COMPONENT DESIGNATIONS

BT1	Outdor sensor
BT2	Room sensor
BT3	Heating flow, sec heat system
BT4	Heating return, sec heat system
BT11	Heating flow temperature
BT12	External flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CP1	DHW tank
CM10	Expansion vessel heating system
EB1	Immersion heater
EB11	Immersion heater
GP1	Circulation pump heating
GP2	Circulation pump hot water
GP3	Circulation pump DHW return
GP10	Circulation pump, heat system
GP20	Circulation pump, sec heat system
RM1	Non return valve hot water
QM10	Diverting valve
QM16	Diverting valve cooling
QN8	Shunt valve
QN9	Shunt valve brine system
QN21	Thermostatic mixing valve (35-60°C)
QN25	Shunt valve, sec heat system
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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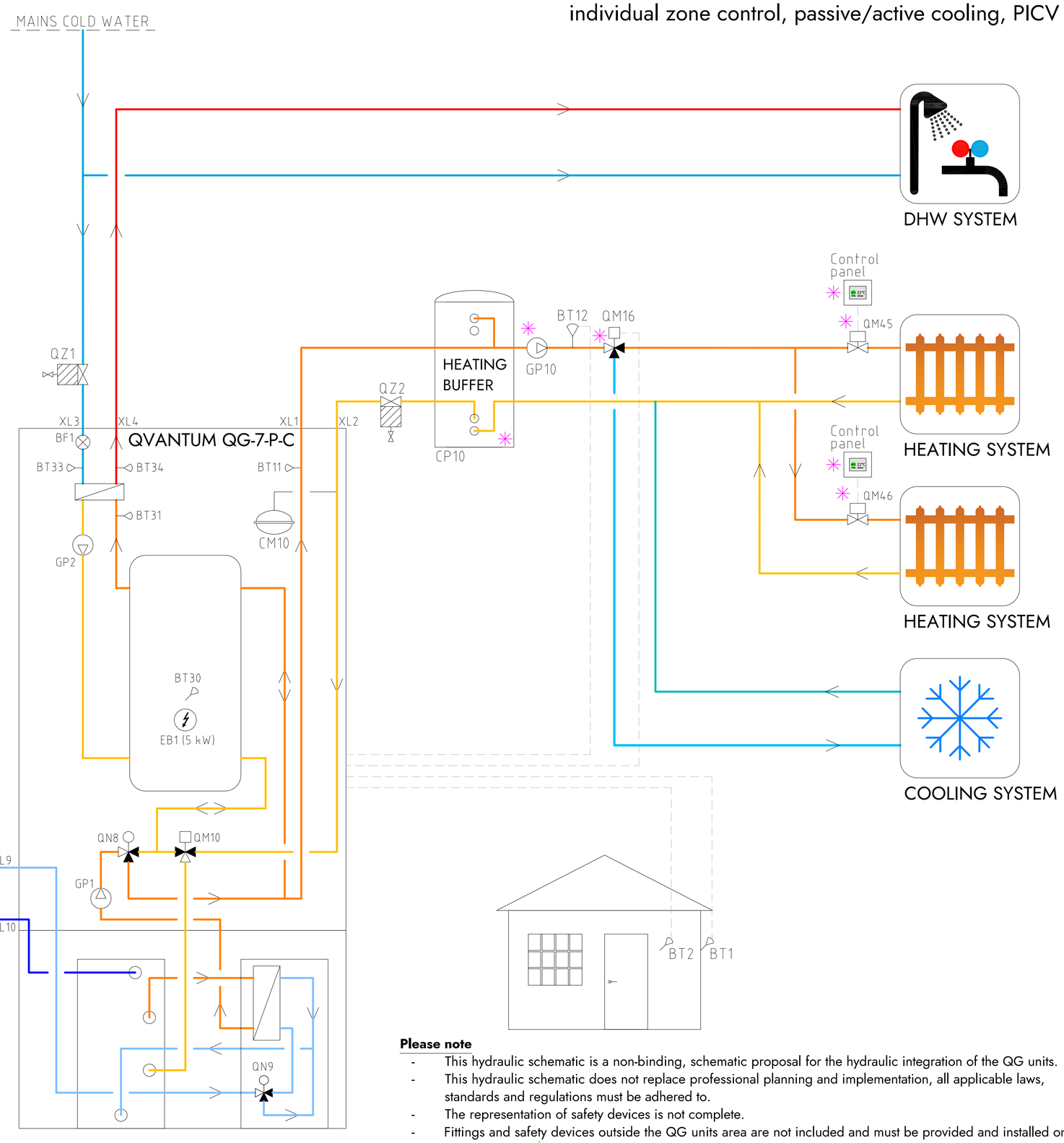
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Classification of objects in accordance with IEC 81346-2.

Information

QG-7-P-C, Heating & hot water, external circulation pump, individual zone control, passive/active cooling, PICV valve



COMPONENT DESIGNATIONS

BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT12	External flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CM10	Expansion vessel heating system
EB1	Immersion heater
GP1	Circulation pump heating
GP2	Circulation pump hot water
GP10	Circulation pump, heat system
QM10	Diverting valve
QM16	Diverting valve cooling
QM45	Zone valve
QM46	Zone valve
QN8	Shunt valve
QN9	Shunt valve brine system
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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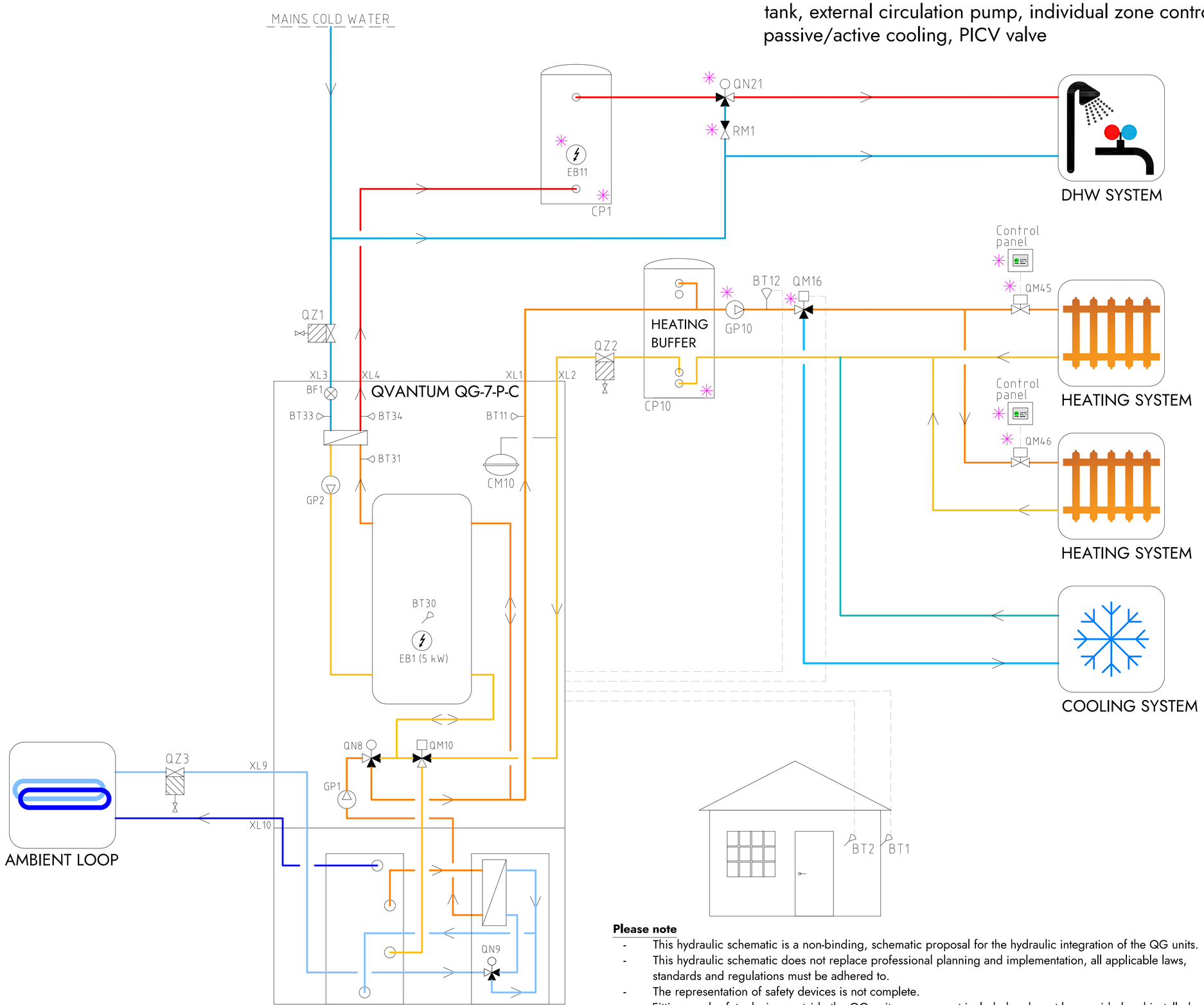
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Classification of objects in accordance with IEC 81346-2.

Information

QG-7-P-C, Heating & hot water with external hot water tank, external circulation pump, individual zone control, passive/active cooling, PICV valve



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COMPONENT DESIGNATIONS

BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT12	External flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CP1	DHW tank
CM10	Expansion vessel heating system
EB1	Immersion heater
EB11	Immersion heater
GP1	Circulation pump heating
GP2	Circulation pump hot water
GP10	Circulation pump, heat system
RM1	Non return valve hot water
QM10	Diverting valve
QM16	Diverting valve cooling
QM45	Zone valve
QM46	Zone valve
QN8	Shunt valve
QN9	Shunt valve brine system
QN21	Thermostatic mixing valve (35-60°C)
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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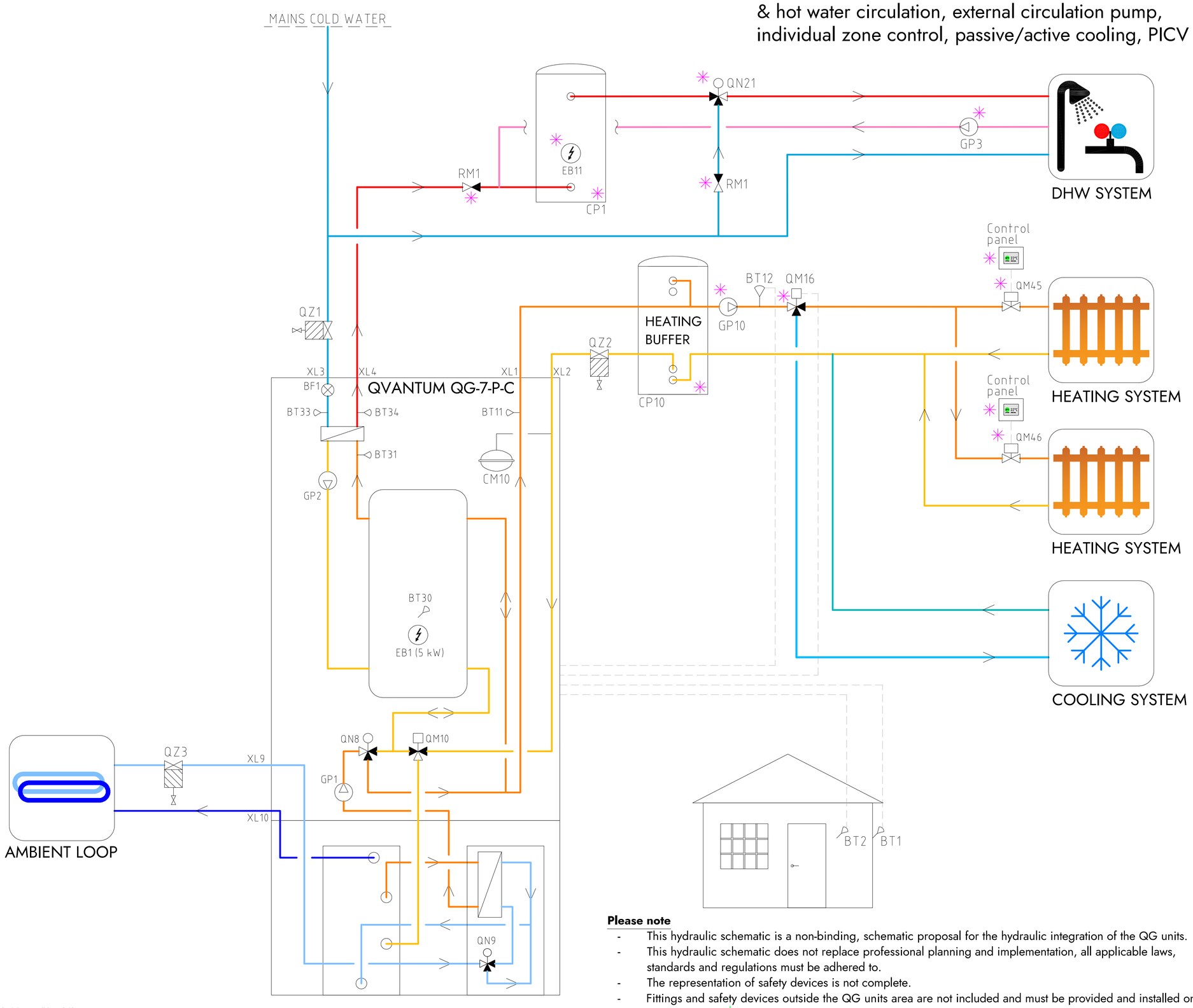
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Classification of objects in accordance with IEC 81346-2.

Information

QG-7-P-C, Heating & hot water with external hot water tank & hot water circulation, external circulation pump, individual zone control, passive/active cooling, PICV valve



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COMPONENT DESIGNATIONS

BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT12	External flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CP1	DHW tank
CM10	Expansion vessel heating system
EB1	Immersion heater
EB11	Immersion heater
GP1	Circulation pump heating
GP2	Circulation pump hot water
GP3	Circulation pump DHW return
GP10	Circulation pump, heat system
RM1	Non return valve hot water
QM10	Diverting valve
QM16	Diverting valve cooling
QM45	Zone valve
QM46	Zone valve
QN8	Shunt valve
QN9	Shunt valve brine system
QN21	Thermostatic mixing valve (35-60°C)
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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QVANTUM QG-7-P

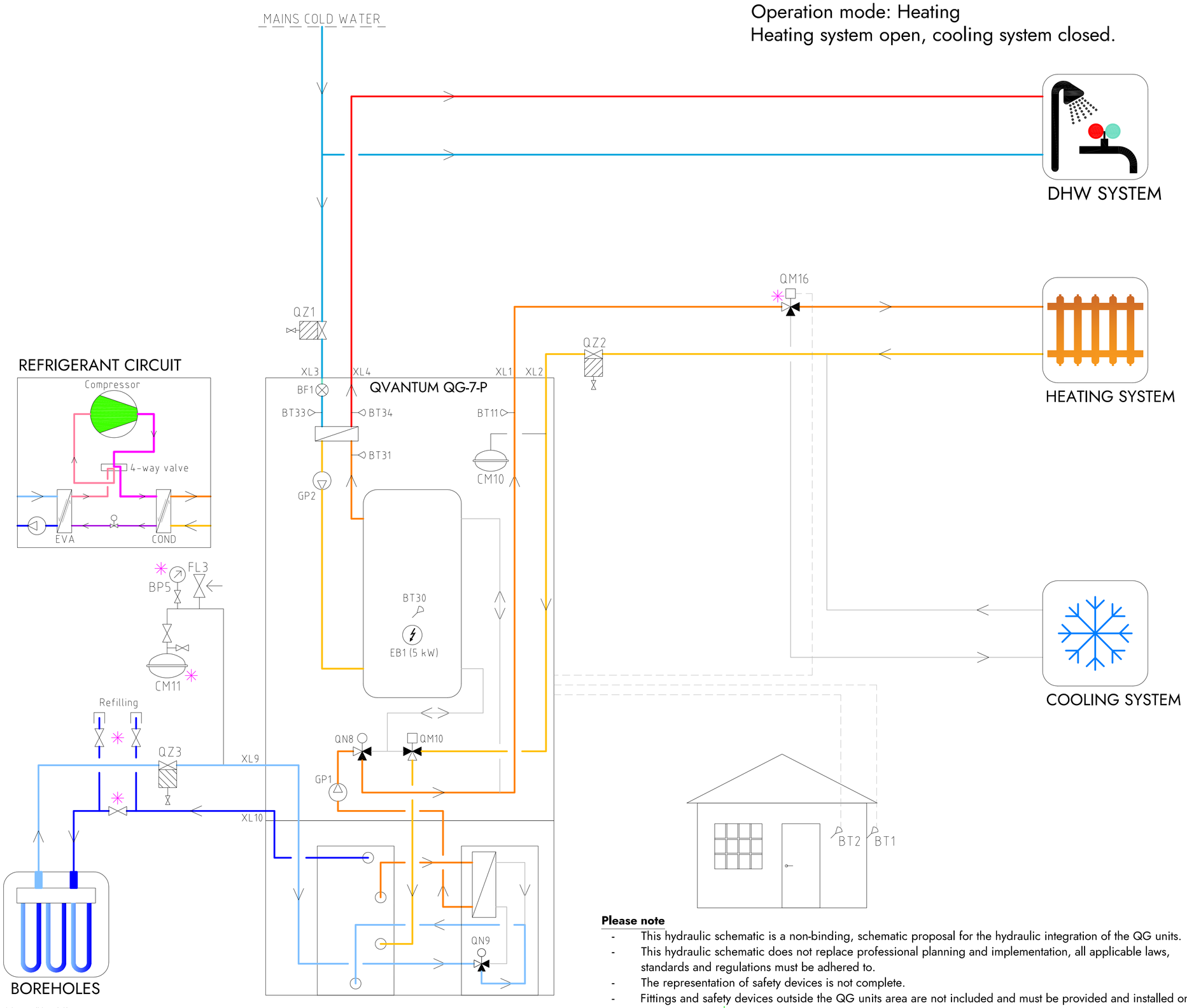
(Operating modes)

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Classification of objects in accordance with IEC 81346-2.

Information

QG-7-P ground source application
Operation mode: Heating
Heating system open, cooling system closed.



COMPONENT DESIGNATIONS

BP5	Pressure gauge
BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CM10	Expansion vessel heating system
CM11	Expansion vessel brine system
EB1	Immersion heater
FL3	Safety valve brine system
GP1	Circulation pump heating
GP2	Circulation pump hot water
QM10	Diverting valve
QM16	Diverting valve cooling
QN8	Shunt valve
QN9	Shunt valve brine system
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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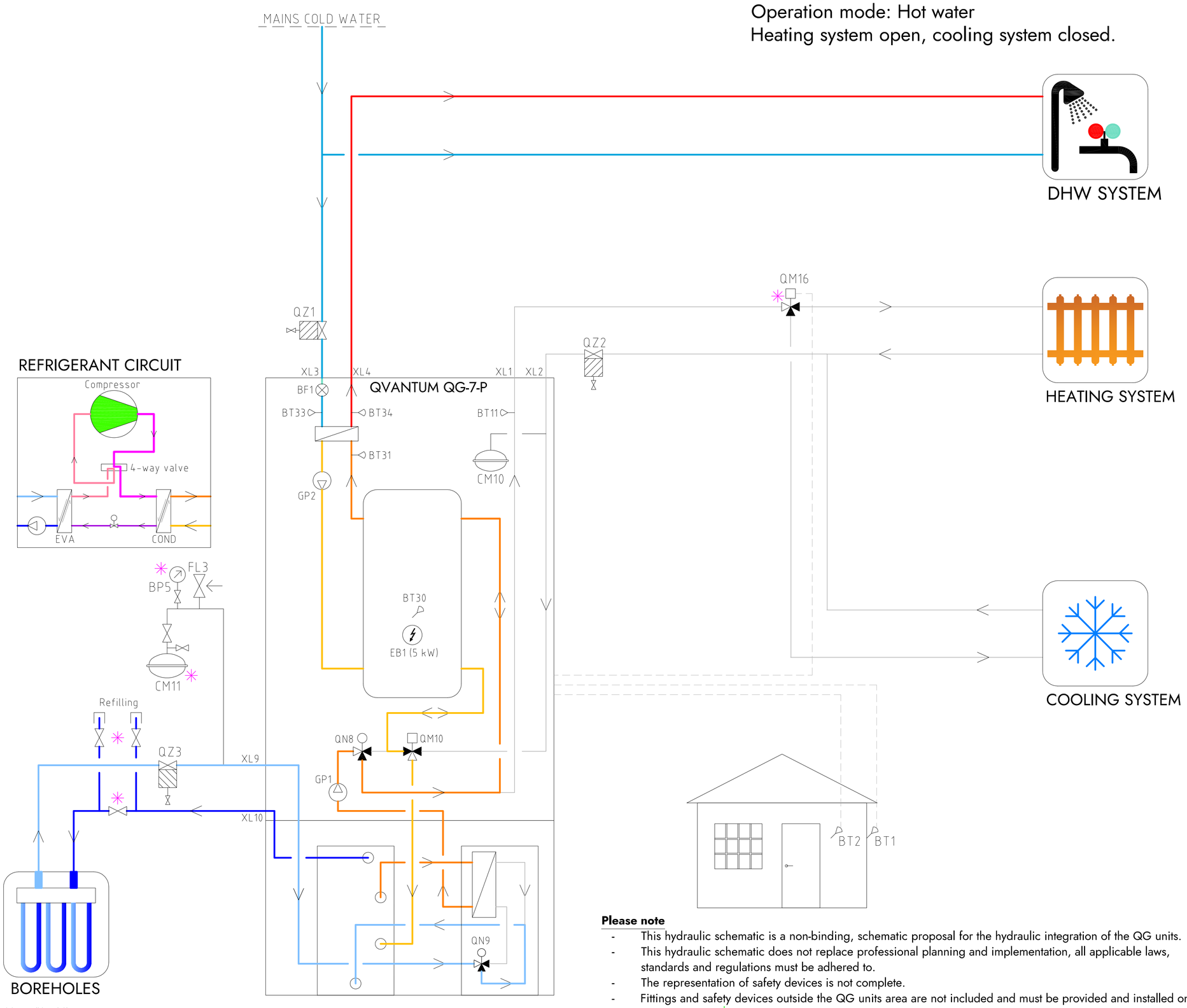
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Classification of objects in accordance with IEC 81346-2.

Information

QG-7-P ground source application
Operation mode: Hot water
Heating system open, cooling system closed.



COMPONENT DESIGNATIONS

BP5	Pressure gauge
BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CM10	Expansion vessel heating system
CM11	Expansion vessel brine system
EB1	Immersion heater
FL3	Safety valve brine system
GP1	Circulation pump heating
GP2	Circulation pump hot water
QM10	Diverting valve
QM16	Diverting valve cooling
QN8	Shunt valve
QN9	Shunt valve brine system
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

Please note

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Ji-te gatan 7, 265 38 Åstorp

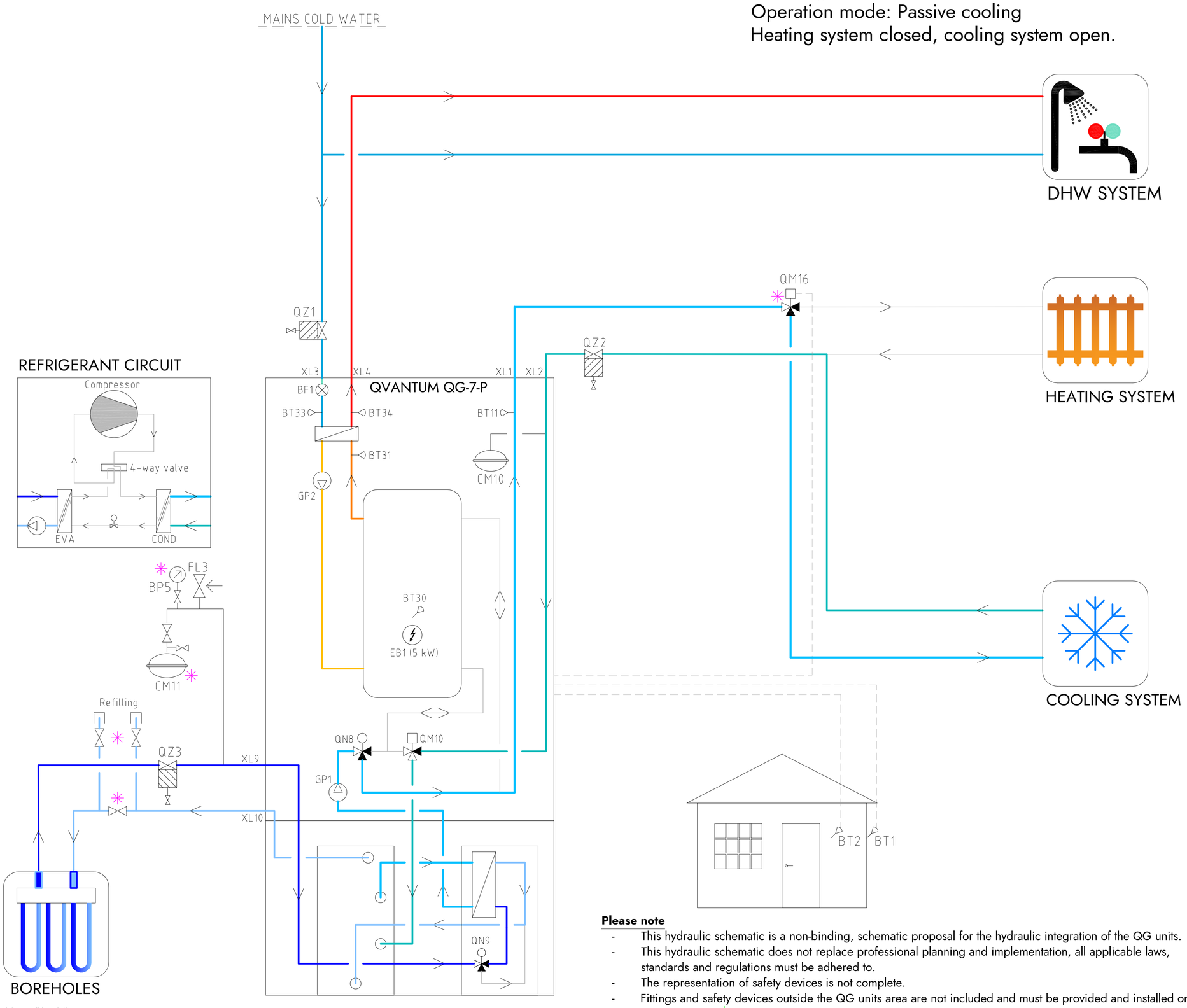
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Classification of objects in accordance with IEC 81346-2.

Information

QG-7-P ground source application
Operation mode: Passive cooling
Heating system closed, cooling system open.



COMPONENT DESIGNATIONS

BP5	Pressure gauge
BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CM10	Expansion vessel heating system
CM11	Expansion vessel brine system
EB1	Immersion heater
FL3	Safety valve brine system
GP1	Circulation pump heating
GP2	Circulation pump hot water
QM10	Diverting valve
QM16	Diverting valve cooling
QN8	Shunt valve
QN9	Shunt valve brine system
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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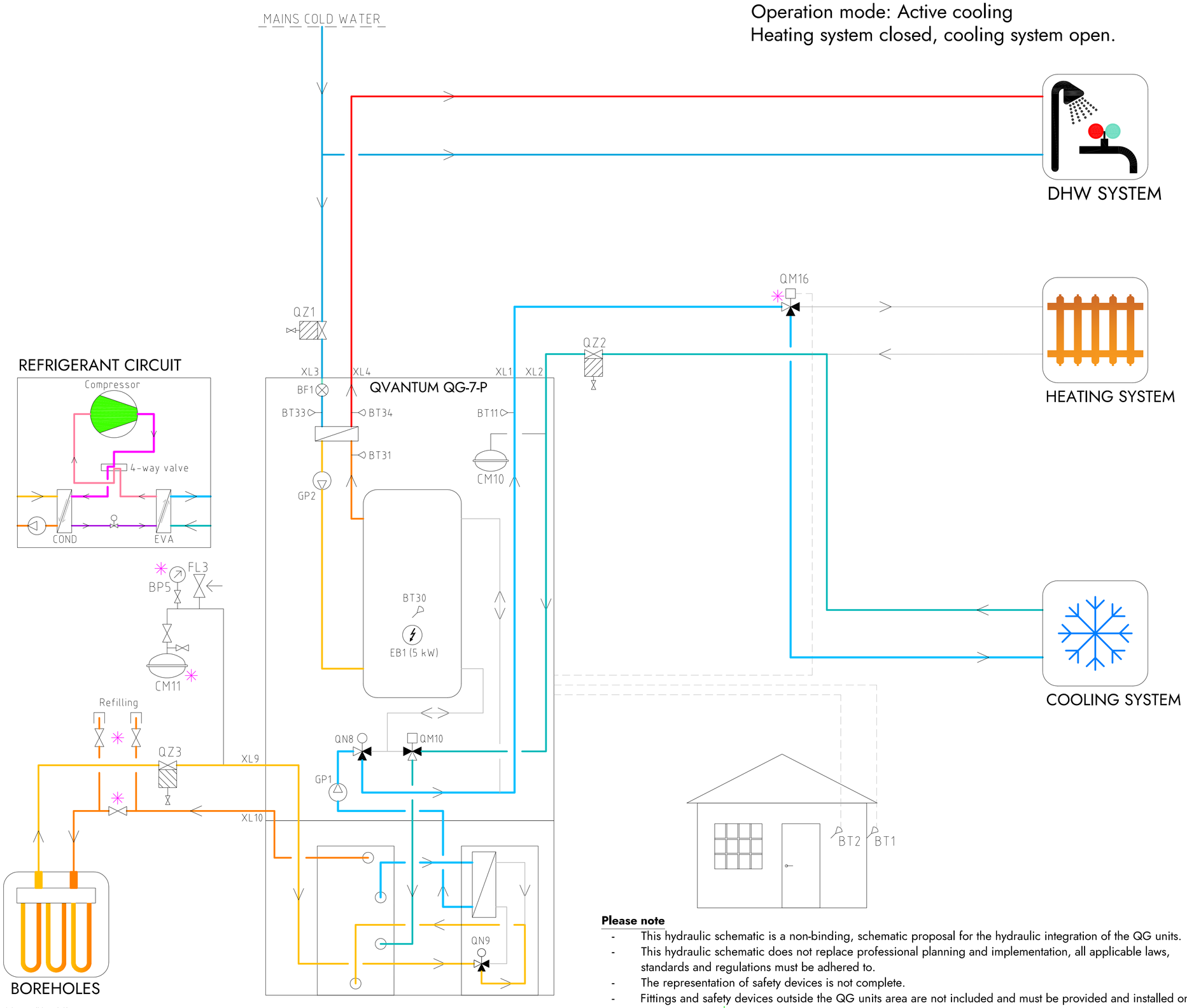
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Classification of objects in accordance with IEC 81346-2.

Information

QG-7-P ground source application
Operation mode: Active cooling
Heating system closed, cooling system open.



COMPONENT DESIGNATIONS

BP5	Pressure gauge
BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CM10	Expansion vessel heating system
CM11	Expansion vessel brine system
EB1	Immersion heater
FL3	Safety valve brine system
GP1	Circulation pump heating
GP2	Circulation pump hot water
QM10	Diverting valve
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QN8	Shunt valve
QN9	Shunt valve brine system
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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QVANTUM QG-7-P-C

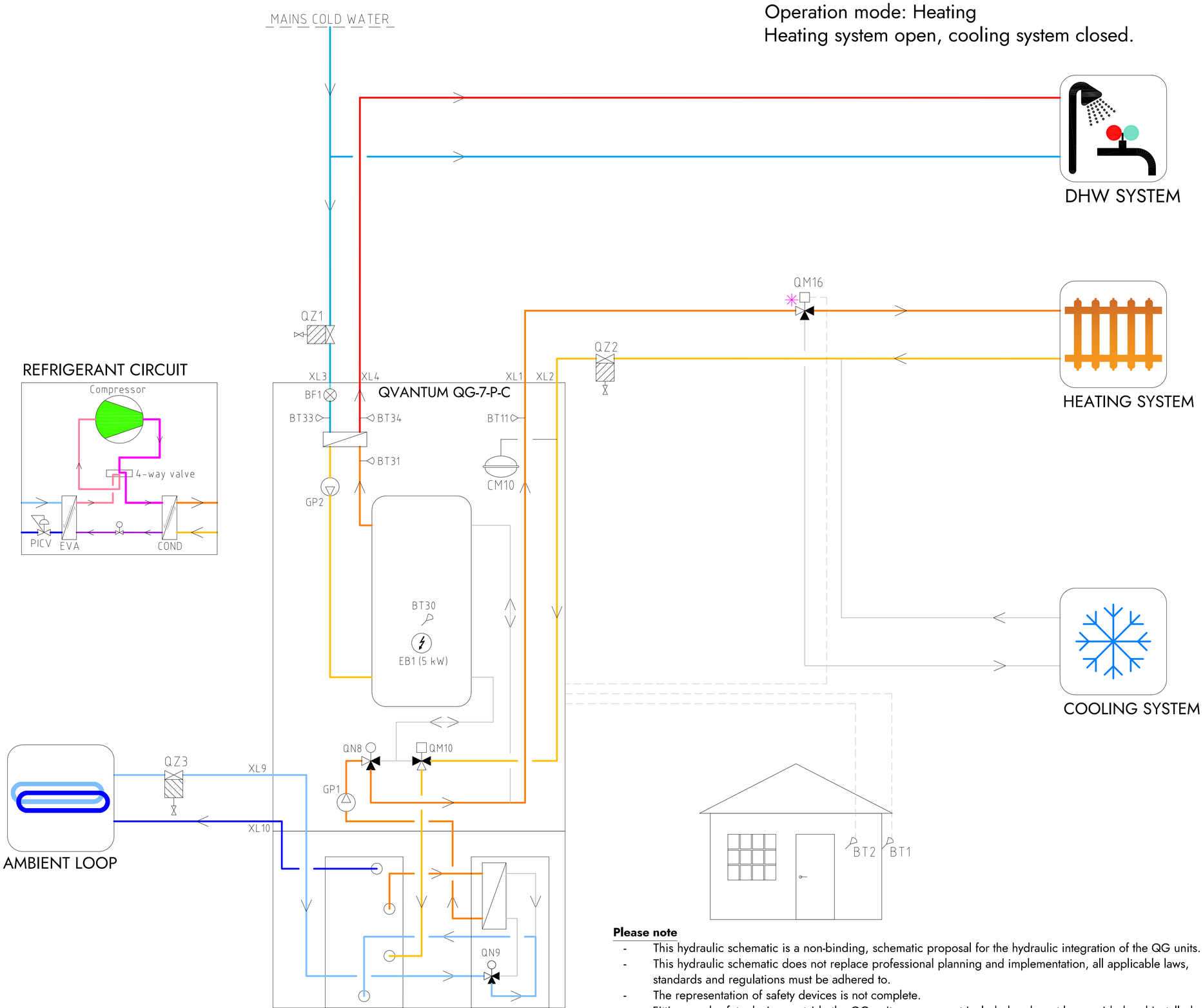
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Subject to possible printing errors.

Classification of objects in accordance with IEC 81346-2.

Information

QG-7-P-C ambient loop application
Operation mode: Heating
Heating system open, cooling system closed.



COMPONENT DESIGNATIONS

BP5	Pressure gauge
BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CM10	Expansion vessel heating system
EB1	Immersion heater
FL3	Safety valve brine system
GP1	Circulation pump heating
GP2	Circulation pump hot water
QM10	Diverting valve
QM16	Diverting valve cooling
QN8	Shunt valve
QN9	Shunt valve brine system
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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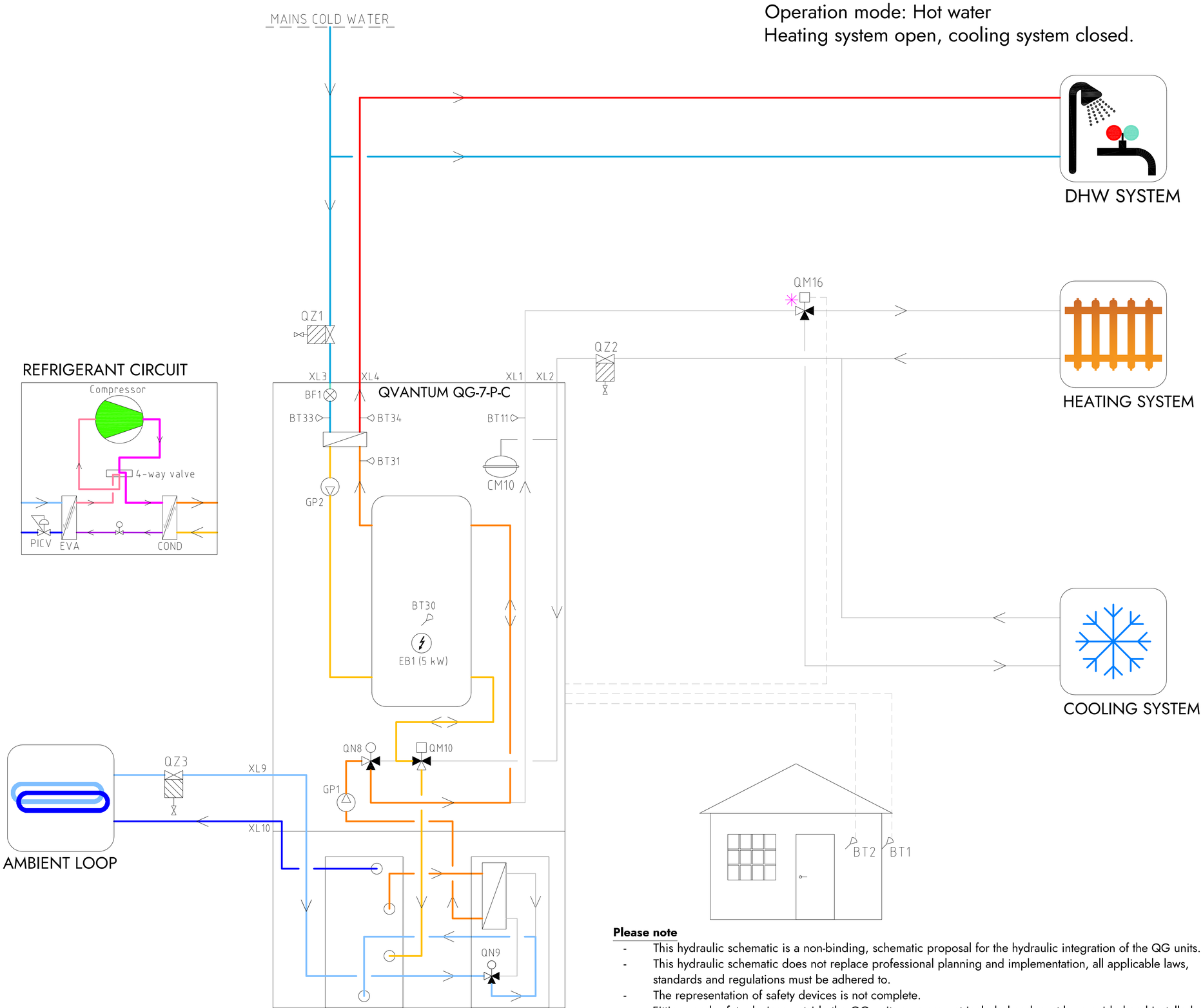
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Classification of objects in accordance with IEC 81346-2.

Information

QG-7-P-C ambient loop application
Operation mode: Hot water
Heating system open, cooling system closed.



COMPONENT DESIGNATIONS

BP5	Pressure gauge
BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CM10	Expansion vessel heating system
EB1	Immersion heater
FL3	Safety valve brine system
GP1	Circulation pump heating
GP2	Circulation pump hot water
QM10	Diverting valve
QM16	Diverting valve cooling
QN8	Shunt valve
QN9	Shunt valve brine system
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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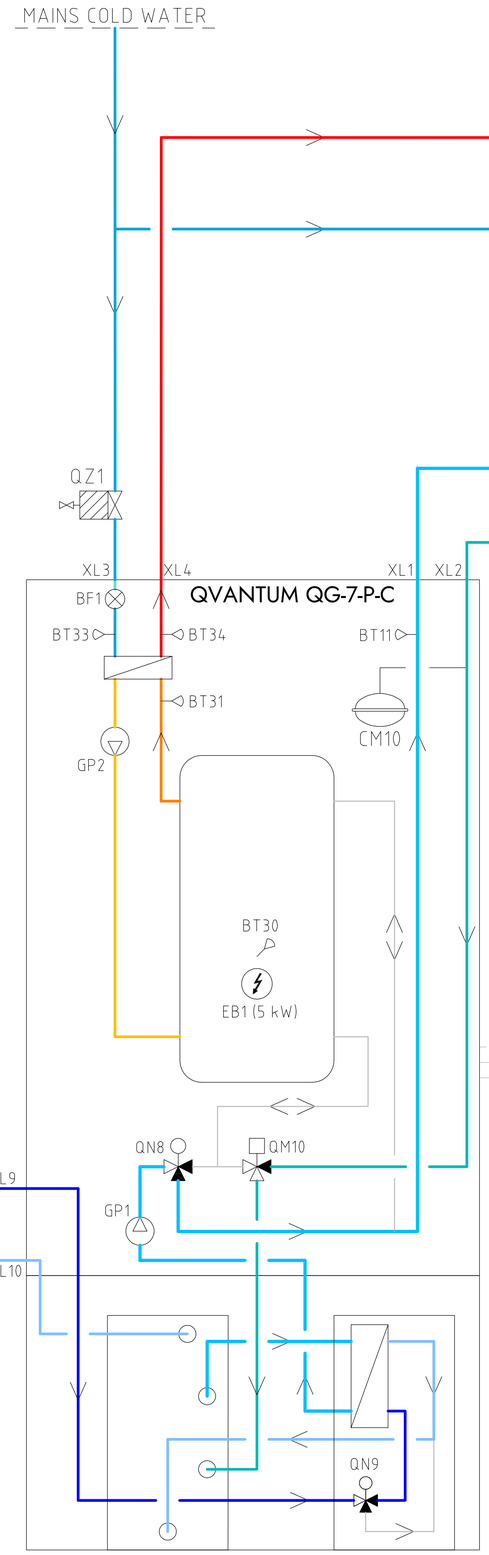
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Classification of objects in accordance with IEC 81346-2.

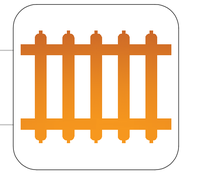
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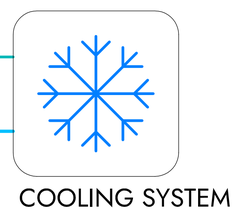
QG-7-P-C ambient loop application
Operation mode: Passive cooling
Heating system closed, cooling system open.

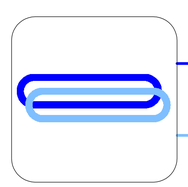


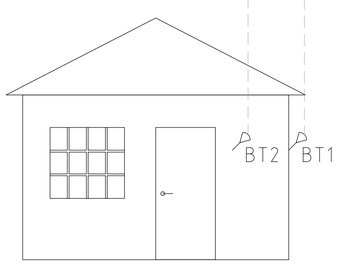












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COMPONENT DESIGNATIONS

BP5	Pressure gauge
BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
BF1	Flow sensor
CM10	Expansion vessel heating system
EB1	Immersion heater
FL3	Safety valve brine system
GP1	Circulation pump heating
GP2	Circulation pump hot water
QM10	Diverting valve
QM16	Diverting valve cooling
QN8	Shunt valve
QN9	Shunt valve brine system
QZ1	Filterball cold water
QZ2	Filterball heating system
QZ3	Filterball brine system
XL1	Connection heat outlet
XL2	Connection heat inlet
XL3	Connection cold water inlet
XL4	Connection hot water outlet
XL9	Connection brine inlet
XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

- Circulation pump
- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
- Strainer

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Classification of objects in accordance with IEC 81346-2.

Information

QG-7-P-C ambient loop application
Operation mode: Active cooling
Heating system closed, cooling system open.



COMPONENT DESIGNATIONS

BP5	Pressure gauge
BT1	Outdor sensor
BT2	Room sensor
BT11	Heating flow temperature
BT30	Tank temperature
BT31	Plate heat exchanger inlet
BT33	Cold water inlet
BT34	Hot water outet
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QM16	Diverting valve cooling
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QN9	Shunt valve brine system
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QZ3	Filterball brine system
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XL4	Connection hot water outlet
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XL10	Connection brine outlet
✳	Components not delivered by Qvantum

COMPONENT SYMBOLS

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- Temperature sensor
- 3-way control valve
- Isolation valve
- Non return valve
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Solution and Heat Pump Experts

Qvantum was founded 1993 with a vision to develop innovative high quality heat pumps.
Today Qvantum continues on this path developing the solutions needed for decarbonization of our cities.

Qvantum is also a company with leading experts in the design of the next generation (5th) district heating and cooling solutions for dense urban areas.

By combining these competence areas, Qvantum can provide solutions that will make it easier for Engineering consultants,
Installers, Project developers and Utilities, to decarbonize the heating and cooling of our cities.